APPENDIX 10.6
2012/2013 LABORATORY DATA PACKAGES AND ATA USABILITY SUMMARIES (DUS)

SOIL

DATA VALIDATION AND USABILITY SUMMARY

FRISCO RECYCLING CENTER
EXIDE TECHNOLOGIES
FRISCO, TEXAS

FALL 2012 SOIL SAMPLING EVENT
FLOOD WALL SAMPLES

Prepared by:

Quality Assurance Associates (*QAA, L.L.C.*)
1007 Francis Drive
College Station, TX 77840
www.qaallc.com
979-694-7199

November 9, 2012

TABLE OF CONTENTS

1.0 PROJECT OVERVIEW AND SUMMARY 1

2.0 PROCEDURES 2

3.0 DATA VALIDATION RESULTS 3

3.1 PRECISION 3
3.1.1 Laboratory Control Sample Duplicate (LCSD) Precision 3
3.1.2 Matrix Duplicate (MD) and Matrix Spike Duplicate (MSD) Precision 3
3.1.3 Field Duplicate (FD) Precision 3
3.2 ACCURACY 3
3.2.1 Laboratory Control Sample (LCS/LCSD) Accuracy 4
3.2.2 Matrix Spike (MS/MSD) and Post Digestion Spike (PDS) Accuracy 4
3.2.3 Serial Dilution (SD) %Difference 4
3.2.4 Surrogate (SU) Recovery 4
3.3 REPRESENTATIVENESS 5
3.3.1 Chain-of-Custody 5
3.3.2 Sample Preservation and Holding Time 5
3.3.3 Blank Contamination 5
3.3.4 Sample Results Evaluation 6
3.4 SENSITIVITY 6
3.4.1 Instrument Performance and Calibration 6
3.4.2 Internal Standards 6
3.4.3 Comparison of Reporting Limits to Decision Criteria 6
3.5 COMPLETENESS 6
3.6 COMPARABILITY 7

4.0 DATA VERIFICATION RESULTS 8

5.0 RECONCILIATION WITH USER REQUIREMENTS 10

5.1 USABILITY OF UNQUALIFIED DATA FOR NONDETECTED RESULTS 10
5.2 USABILITY OF QUALIFIED DATA 10

LIST OF TABLES

Table 1 – Sample Summary
Table 2 – Data Validation Qualifiers (DVQs)
Table 3 – QC Deficiencies and Data Qualification Actions
Table 4 – Qualified Sample Results

ATTACHMENTS

Attachment A – Validator's Checklists

1.0 PROJECT OVERVIEW AND SUMMARY

Quality Assurance Associates (QAA) completed a third party QA/QC data validation of chemical analysis data from the Exide Technologies Frisco Recycling Center in Frisco, Texas. The independent data validation, which included a data verification process and usability determination, was completed in accord with the Quality Assurance Project Plan (revised November 2011), hereinafter called the QAPP, using Level IV data packages and electronic data deliverables (EDD) supplied by the laboratory (TestAmerica-Houston). The data include 21 investigative soil samples and the associated QC samples, as listed in Table 1. The samples were collected by Pastor, Behling, and Wheeler, LLC (PBW) in September and October 2012 and the results will be used to define the nature, location, extent, and movement of hazardous wastes and/or hazardous constituents, which are present at or have been released from the site, specifically by comparison of the results to delineation standards. QAA performed the validation per the procedures specified in section 6.0 of the QAPP using the guidelines presented in the U.S. EPA Contract Laboratory Program *National Functional Guidelines for Inorganic Superfund Data Review* (January 2010) and *National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008), hereinafter called the NFG, and the QC requirements in the analytical methodology used by the laboratory.

The results of the review are summarized in Table 4, which lists all of the qualified sample results. All qualified data is considered useable with limitations as discussed in Section 5.0. Additionally, all unqualified results for non-detects are at or below the minimum required reporting levels (which have been set at the minimum applicable standards (i.e., the soil to groundwater protective concentration levels) pending establishment of delineation standards for the site), and thus suitable for demonstrating conformance with standards.

2.0 PROCEDURES

QAA completed the validation by examining the hardcopy packages and EDD produced by the laboratory, which include analysis results, QC reports, and raw data. QAA examined the data for all of the samples for:

- Data Package Completeness,
- Chain-of-Custody Procedures,
- Sample Preservation and Holding Time,
- Instrument Calibration and Performance,
- Calibration Verification,
- Blanks (Laboratory and Field),
- Surrogates (SU),
- Matrix Spike/Matrix Spike Duplicates (MS/MSD),
- Matrix Duplicates (MD),
- Serial Dilutions (SD),
- Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSD),
- Internal Standards (IS),
- Target Compound Identification, and
- Field Duplicates (FD).

Additionally, using the EDD, the validator verified that the reporting limits and detection limits for all of the samples were properly adjusted for sample-specific factors such as dilution, dry-weight correction, and use of a smaller or larger sample aliquot. For three of the 21 samples with one from each laboratory work order, the validator reviewed the raw data and determined that the sample results were correctly calculated and reported.

The validator performed the validation using data validation checklists (Attachment A) and the following QC criteria:

- Laboratory Accuracy – the method-specified recovery control limits of 75-125% for metals and TPH with a data rejection limit of 30% for inorganics and 10% for organics
- Laboratory Precision – the method-specified RPD control limit of 20% or an absolute difference control limit of 1x the reporting limit (if either result is less than or equal to 5x the reporting limit) per the NFG

After completing the examination, the validator applied qualifying flags to any data with a QC deficiency. The qualifiers were applied in accord with the NFG and include the expected direction of bias if apparent from the QC outcome. The validator considered each QC deficiency separately and then, for multiple deficiencies, applied the most severe flag. The data validation qualifiers (DVQs) are defined in Table 2. Note that the DVQ replaces all qualifiers applied by the laboratory.

Upon completion of the validation, QAA performed data verification to assess the entire data set for overall trends in data quality and usability. Data quality was examined in terms of precision, accuracy, representativeness, sensitivity, completeness, and comparability. Data usability was then determined considering the intended use, laboratory reporting limits, and QC deficiencies found during validation using the U.S. EPA's Guidance for Data Useability in Risk Assessment, Part A (April 1992).

3.0 DATA VALIDATION RESULTS

The soil samples were analyzed for total metals and/or total petroleum hydrocarbons (TPH). All of the samples were included in the validation and the outcomes are summarized below.

3.1 PRECISION

QAA evaluated the sampling and analytical precision of the sample results using the relative percent difference (RPD) for the laboratory control sample duplicates (LCSD), the unspiked matrix duplicates (MD) and matrix spike duplicates (MSD), and the field duplicates (FD). LCSD are prepared using a clean sample matrix (reagent water or sand) and provide an indication of the precision of the preparation and analysis technique on a sample free of matrix effects. MD and MSD are prepared by the laboratory using a field sample. They provide an indication of the precision of the preparation and analysis technique on the specific sample matrix. FD are prepared by the sampler in the field and provide an indication of the precision of the sampling technique plus the preparation and analysis technique on the specific sample matrix.

3.1.1 LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) PRECISION

No LCSD were analyzed or required per the analytical methodology for the tests performed during this event.

3.1.2 MATRIX DUPLICATE (MD) AND MATRIX SPIKE DUPLICATE (MSD) PRECISION

The laboratory analyzed an MD and/or MSD with every analytical batch (maximum 20 samples) and reported RPDs for all target compounds for MD and MSD prepared using a sample from the site. As indicated in Table 1, two MD and two MSD were prepared for metals using a soil sample from the site and one MSD was prepared for TPH using a soil sample from the site.

For TPH, the MSD RPDs are within the QC criteria. For metals, the RPDs for cadmium are within the QC criteria while all of the MD and MSD RPDs for lead are above the QC criteria (maximum 20%). The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results. Note that, for cases where either result for the duplicate pair is less than 5x the reporting limit, the validator compared the absolute difference between the two results to a control limit of 1x the reporting limit rather than evaluating the RPD per the NFG. Additionally, for the duplicates prepared using sample 2012-FWFS-7 (Wall), which required dilution for lead, the validator considered samples of the same investigative media with comparable levels of lead to be of similar matrix (i.e., all floodwall soil samples requiring dilution for lead and in the same analytical batch were qualified). For the duplicates prepared using sample 2012-FWFS-4 (Wall), which required filtration of the digestate to reduce matrix interference, the validator only qualified the parent sample since no other flood wall samples required filtration.

3.1.3 FIELD DUPLICATE (FD) PRECISION

No FD were collected or required per the QAPP for the media sampled during this event.

3.2 ACCURACY

QAA evaluated the analytical accuracy of the sample results using the results for the laboratory control samples (LCS/LCSD), matrix spikes (MS/MSD) and post-digestion spikes (PDS), and serial dilutions (SD). LCS/LCSD are prepared using a clean sample matrix (reagent water or sand) and provide an indication of the accuracy of the preparation and

analysis technique on a sample free of matrix effects. MS/MSD are prepared using a field sample and provide an indication of the accuracy of the preparation and analysis technique on the specific sample matrix. PDS are prepared like MS/MSD except the spike is added after preparation just before analysis rather than before preparation. SD are prepared using a field sample and indicate whether or not matrix interferences are significantly affecting the accuracy for results that are substantially above the reporting limit.

3.2.1 LABORATORY CONTROL SAMPLE (LCS/LCSD) ACCURACY

The laboratory analyzed a LCS with every analytical batch (maximum 20 samples) as required and reported recoveries for all target compounds except >C28-C35 TPH. No LCSD were analyzed or required for the analytical methodology used for this event. All LCS recoveries are within the QC criteria (75-125%).

3.2.2 MATRIX SPIKE (MS/MSD) AND POST-DIGESTION SPIKE (PDS) ACCURACY

The laboratory analyzed an MS and MSD for every analytical batch (maximum 20 samples) and reported recoveries for all target compounds except >C28-C35 TPH for MS/MSD prepared using a sample from the site. Additionally, the laboratory analyzed a PDS for every metals analytical batch and reported recoveries for any target metals with a MS/MSD recovery outside the control limits that was not waived due to insufficient spike concentration. As indicated in Table 1, two MS/MSD were prepared for metals using a soil sample from the site and one MS/MSD was prepared for TPH using a soil sample from the site.

For TPH, the MS/MSD recoveries are within the QC criteria. For metals, the MS/MSD recoveries for cadmium are within the QC criteria while all of the MS/MSD recoveries for lead are outside the QC criteria (75-125%). The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results. Note that, for the MS/MSD prepared using sample 2012-FWFS-7 (Wall), lead was detected in the unspiked parent sample at a concentration well above (greater than four times) the concentration of spike added to the sample, thereby rendering the recoveries inconclusive. Likewise, the PDS recovery for lead is not reported. The check was waived and the validator did not qualify the data. For the MS/MSD prepared using sample 2012-FWFS-4 (Wall), which required filtration of the digestate to reduce matrix interference, the MS/MSD recoveries for lead are outside the QC criteria at 145% and 48%, respectively but indicate lead is recoverable in this difficult sample matrix. The PDS recovery is within the criteria at 93%. The validator only qualified the parent sample since no other flood wall samples required filtration.

3.2.3 SERIAL DILUTION (SD) %DIFFERENCE

For each metals MS/MSD prepared using a sample from the site, the laboratory analyzed an SD and reported the %difference for any target metals with a MS/MSD recovery outside the control limits that was not waived due to insufficient spike concentration. As a result, SD %differences are reported for cadmium and lead for the SD prepared using sample 2012-FWFS-4 (Wall).

The SD %differences are within the QC criteria.

3.2.4 SURROGATE (SU) RECOVERY

The laboratory spiked each TPH sample with one surrogate before preparation and analysis and the recovery is within the QC criteria (70-130%) for all samples.

3.3 REPRESENTATIVENESS

QAA evaluated representativeness of the sample results by examining the custody procedures, calculating holding times, examining blanks for evidence of contamination, and examining sample results for outliers or suspect values.

3.3.1 CHAIN-OF-CUSTODY

All samples were delivered to the laboratory by an overnight, commercial carrier within two days of collection with properly executed chain-of-custody records, which confirms that sample integrity was maintained. The validator noted a few minor inconsistencies between the information on the custody records and that assigned by the laboratory. However, all issues were resolved and/or do not affect the integrity of the investigative samples. Details are listed in the validator's checklists included as Attachment A.

3.3.2 SAMPLE PRESERVATION AND HOLDING TIME

All samples were properly preserved and analyzed within the holding times listed in Table 5-1 of the QAPP, which confirms that sample results are not affected by sample degradation, except as follows:

- The samples in work order 600-63252 were received at 9.4 C.

The samples were analyzed for total cadmium and lead, which requires preservation at 4±2 C per Table 3 in the QAPP. However, no preservation is required for metals in solid samples per the analytical method and thus analyte degradation is not suspected and the metals results were not qualified.

The samples were also analyzed for TPH, which requires preservation at 4±2 C per Table 3 in the QAPP and the analytical method. Per the NFG, professional judgment should be used to qualify organic samples whose temperature upon receipt at the laboratory is above 6 degrees centigrade. The TPH samples were collected using a bulk sampling technique into completely filled containers with lined lids and were received securely sealed and on ice within 24-hours of collection. They were frozen upon receipt until prep and analysis. For all 18 of the TPH samples collected during this event including the six samples received above temperature, the results for all of the C-ranges (C6-C35) are reported as non-detect. The validator qualified these non-detects for the affected samples as estimated (UJ).

3.3.3 BLANK CONTAMINATION

The laboratory analyzed a preparation blank for every analytical batch (maximum 20 samples) and a calibration blank for every 10 metals analyses. Additionally, the sampler prepared one equipment rinsate blank with the flood wall creek side (FWCS) soil samples collected on 9/4/12. The QAPP requires one equipment rinsate blank per day of sample collection that requires re-usable equipment. Disposable equipment was used for the collection of the flood wall facility side (FWFS) samples. The QAPP also requires one trip blank per cooler with volatile organics. No trip blanks were shipped with the TPH samples; however, the samples are all non-detect, which confirms that no field contamination was introduced.

A detect for lead is reported in one of the laboratory QC blanks and in the equipment blank. The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results. Note that the validator calculated a blank equivalent concentration taking into account the sample weight, moisture content, and dilution factor (for laboratory blank contamination only) for each sample when determining if the contamination in the blank is near that in the sample, and thus if data quality is affected for that sample. When comparing aqueous blank concentrations (e.g., for the

equipment blank) to solid samples, the validator assumed that all contamination found in the aqueous blank aliquot used for the analysis is potentially present in the solid sample aliquot.

For the laboratory blank, none of the associated samples has a lead concentration near that in the blank, and thus data quality is not affected. For the equipment blank, one sample (2012-FWCS-11 (0-2')) has a lead concentration near that in the blank and thus was qualified.

3.3.4 SAMPLE RESULTS EVALUATION

As previously noted, no field duplicate results are available for comparison. Additionally, there are no total and partial results (e.g. total and leachate metals) available for comparison.

3.4 SENSITIVITY

QAA evaluated sensitivity by examining the instrument performance and the sample reporting limits as compared to decision criteria.

3.4.1 INSTRUMENT PERFORMANCE AND CALIBRATION

The laboratory properly calibrated each instrument and analyzed a calibration verification standard for every 10 metals analyses and at the beginning and end of every TPH analytical shift. Recoveries for all calibration verification standards are within the QC criteria (90-110% for metals and 75-125% for TPH), which indicates the instruments were properly calibrated and stable throughout the analytical shift.

The laboratory also analyzed quarterly low-level detectability check standards (DCS).The DCS confirm the reasonableness of the laboratory method detection limits (MDLs) (i.e., they indicate that the analyte is recoverable at a spike level within 3-5x the MDL) for all investigative samples.

3.4.2 INTERNAL STANDARDS

Internal standards were not used nor required for any of the tests for this event.

3.4.3 COMPARISON OF REPORTING LIMITS TO DECISION CRITERIA

The laboratory reported non-detects at the sample detection limit (SDL), which is the method detection limit (MDL) adjusted for sample-specific actions such as dilution, dry-weight correction, or use of a smaller sample aliquot. Detects above the SDL but below the SQL, which is the method quantitation limit (MQL) adjusted for sample-specific actions, are reported as laboratory J values. The delineation standards for this event have not yet been established, but the minimum applicable standards are the soil to groundwater protective concentration levels (i.e., $^{GW}Soil_{lng}$ PCLs). All of the SDLs for non-detects are at or below these minimum required reporting levels.

3.5 COMPLETENESS

QAA evaluated completeness by examining the laboratory data packages and by determining the amount of valid data obtained for the samples.

The Level IV data packages contain all necessary information and the raw data review indicates the results are reported correctly without calculation or transcription errors.

QAA evaluated field completeness by comparing the total number of tests performed with the total number of tests planned for investigative samples. All planned investigative samples were collected and analyzed for the requested tests, giving a field completeness of 100%. The typical goal is 90%. (The QAPP does not include completeness goals.)

QAA evaluated laboratory completeness by comparing the total number of valid analytical results with the total number of results reported for investigative samples. The validator did not reject any results, giving a laboratory completeness of 100%. The typical goal is 90%. (The QAPP does not include completeness goals.)

3.6 COMPARABILITY

Samples were analyzed using standard EPA protocols as shown in Table 1. The methodologies employed by the laboratory are specified for use in the QAPP and provide definitive, quantitative data. The hardcopy sample results are reported with the sample detection limit (SDL) and the method quantitation limit (MQL). The EDD includes the SDL (under the Low Limit column) and the sample quantitation limit (SQL, under the High Limit column). A detection limit corresponds to the lowest concentration at which a target analyte can be positively identified but not necessarily accurately measured and is statistically determined by the laboratory. A quantitation limit reflects the lowest concentration at which a target analyte can be both positively identified and accurately measured. The SDLs and SQLs reported by the laboratory are adjusted for sample-specific actions such as dilution or use of a smaller aliquot size and include dry-weight correction for all solid samples. Sample results are reported in mg/kg. Non-detects are reported as less than the SDL and detects between the SDL and SQL are reported with a laboratory J flag. Since these detects are below the calibration range, the validator qualified each as estimated with an unknown bias (J).

The analytical results were reviewed and are classified as Level IV data. The analytical results are considered comparable to other results similarly generated.

4.0 DATA VERIFICATION RESULTS

Upon completion of the validation, data verification was completed to summarize overall trends in data quality as follows:

1. Precision is the degree of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions, without assumption of any prior information as to the true result. Precision is measured through the analysis of replicate or duplicate samples and calculation of the relative percent difference (RPD) between the results. The validator assessed precision using the laboratory duplicates. The laboratory prepared at least one MD and/or MSD using a sample from the site for each test for this investigative media. The RPDs for these laboratory duplicates are within the limits, which indicates good precision for the analytical method on the specific sample matrix, or the validator qualified the results for similar samples in the same analytical batch as the duplicate. Of the 111 results, 9 results (all of which are for lead) are qualified as estimated (J) based on laboratory duplicate precision.

2. Accuracy is the degree of agreement of a measurement with an accepted reference or true value. Accuracy is measured through the analysis of reference samples or the introduction of reference materials (spikes) to field samples and calculation of the percent recovery of the known value. The validator assessed accuracy using the laboratory spikes and matrix spikes. The laboratory prepared a laboratory control sample (LCS) using reagent sand with each analytical batch and reported the recoveries for all target compounds except >C28-C35 TPH. All LCS recoveries are within the limits, which indicates good accuracy for the analytical method on a sample free of matrix effects. Additionally, the laboratory prepared at least one matrix spike using a sample from the site for each test for this investigative media and also prepared one post digestion spike (PDS) and serial dilution (SD) for the metals analyses. The SD %differences are within the laboratory limits, which indicates there is no matrix interference affecting the accuracy of the results that are substantially above the reporting limit. The MS/MSD and PDS recoveries are within the laboratory limits, which indicates good accuracy for the analytical method on the specific sample matrix, or the validator qualified the results for similar samples in the same analytical batch as the MS/MSD. None of the results are qualified as rejected due to extremely poor accuracy. Of the 111 results, one result (for lead in sample 2012-FWFS-4 (Wall)) is qualified as estimated based on matrix spike results. The PDS prepared with the MS/MSD for this sample shows good recovery (93%).

3. Representativeness expresses the degree to which sample data accurately and precisely represent environmental conditions and parameter variations at a sampling location. Representativeness is a qualitative parameter most concerned with the proper design of the sampling program and is also ensured by using the proper analytical procedures. The validator assessed representativeness by examining custody procedures, sample preservation and holding times, and the laboratory and field QC blanks. Sample preservation and holding times met the method requirements, which indicates the results are not affected by sample degradation, except for the TPH samples collected on 10/22/12 that were received above 6 C at 9.4 C. The results for each of these six samples, which are all non-detect, are qualified as estimated. The laboratory prepared a method blank with each analytical batch and analyzed calibration blanks throughout each metals analytical shift. Additionally, the sampler collected one equipment rinsate blank with the samples. The laboratory and field QC blanks show no contamination, which indicates the samples were not affected by laboratory or field procedures, or the validator qualified the samples associated with the blank that have a concentration similar to that in the blank. This resulted in the qualification of one detect for lead (in sample 2012-FWCS-11 (0-2')) as estimated. This result is also qualified due to poor duplicate precision, and thus the direction of bias is unknown.

4. Sensitivity (S) is the capability of a method or instrument to discriminate between measurement responses representing different levels of the parameter of interest. Sensitivity is expressed in terms of the laboratory detection limits (which are a measure of the concentration an instrument can detect or 'see' in a sample) and the laboratory reporting limits or quantitation limits (which are a measure of the concentration an instrument can accurately measure in a sample). The laboratory method detection limits (MDLs) are confirmed reasonable by detectability check standards (DCS). For all non-detects, the sample detection limits (SDLs) are at or below the minimum required reporting levels. Additionally, proper analytical procedures were used and calibration results met the method requirements.

5. Completeness (C) is the amount of valid data obtained from a measurement system compared to the amount that was expected and required to meet the project data goals. QAA calculated field completeness at 100% and laboratory completeness at 100%.

6. Comparability (C) is an expression of the confidence with which one data set can be compared to another. The samples were analyzed using standard EPA protocols as specified in the QAPP. The analytical results were reviewed and are classified as Level IV data and are considered comparable to other results similarly generated. Note that results are reported in mg/kg with dry-weight correction.

5.0 RECONCILIATION WITH USER REQUIREMENTS

Samples results will be used to define the nature, location, extent, and movement of hazardous wastes and/or hazardous constituents, which are present at or have been released from the site, specifically by comparison of the results to delineation standards.

5.1 USABILITY OF UNQUALIFIED DATA FOR NONDETECTED RESULTS

The laboratory reported non-detects at the sample detection limit (SDL), which is the method detection limit (MDL) adjusted for sample-specific actions such as dilution, dry-weight correction, or use of a smaller sample aliquot. The MDLs are confirmed reasonable by the analysis of detectability check standards (DCS) and the SDLs for all nondetected results are at or below the minimum required reporting level (which have been set at the minimum applicable standards (i.e., the soil to groundwater protective concentration levels) pending establishment of delineation standards for the site).

5.2 USABILITY OF QUALIFIED DATA

Table 4 shows the qualified data for all samples. No results are qualified as rejected (R) and thus all data is suitable for the intended use. Some results are qualified as estimated with an indeterminate bias (J or UJ). Usability will depend on the proximity to the delineation standard, when established.

TABLE 1
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
FALL 2012 SOIL SAMPLING EVENT

SAMPLE SUMMARY

Lab ID	Client ID	Matrix	Media	Type	Collection Date	Receive Date	QC Batch (Dilution Factor)[1]		
							Total Cadmium	Total Lead	TPH
600-60819-1	2012-FWFS-9 (Floor)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (10x)	600-87946 (10x)	600-88381 (1x)
600-60819-2	2012-FWFS-9 (Wall)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-3	2012-FWFS-8 (Floor)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (1x)	600-88381 (1x)
600-60819-4	2012-FWFS-8 (Wall)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (1x)	600-88381 (1x)
600-60819-5	2012-FWFS-7 (Floor)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (1x)	600-88381 (1x)
600-60819-6	2012-FWFS-7 (Wall)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-6	2012-FWFS-7 (Wall)	Solid	Site Soil	MD	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	NA
600-60819-6	2012-FWFS-7 (Wall)	Solid	Site Soil	MS	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-6	2012-FWFS-7 (Wall)	Solid	Site Soil	MSD	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-7	2012-FWFS-6 (Floor)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-8	2012-FWFS-6 (Wall)	Solid	Site Soil	INV	9/4/12	9/5/12	600-87946 (1x)	600-87946 (10x)	600-88381 (1x)
600-60819-9	2012-FWCS-1 (2-2.5')	Solid	Site Soil	INV	9/4/12	9/5/12	NA	600-87946 (10x)	NA
600-60819-10	2012-FWCS-12 (0-2')	Solid	Site Soil	INV	9/4/12	9/5/12	NA	600-87946 (10x)	NA
600-60819-11	2012-FWCS-11 (0-2')	Solid	Site Soil	INV	9/4/12	9/5/12	NA	600-87946 (100x)	NA
600-60819-13	2012-FWCS-EB	Water	EB	EB	9/4/12	9/5/12	NA	600-88007 (1x)	NA
600-61851-1	2012-FWFS-5 (Floor)	Solid	Site Soil	INV	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	600-89599 (1x)
600-61851-2	2012-FWFS-5 (Wall)	Solid	Site Soil	INV	9/24/12	9/25/12	600-89798 (1x)	600-89798 (20x)	600-89599 (1x)
600-61851-3	2012-FWFS-4 (Floor)	Solid	Site Soil	INV	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	600-89599 (1x)
600-61851-4	2012-FWFS-4 (Wall)	Solid	Site Soil	INV	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	600-89599 (1x)
600-61851-4	2012-FWFS-4 (Wall)	Solid	Site Soil	MD	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	NA
600-61851-4	2012-FWFS-4 (Wall)	Solid	Site Soil	MS	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	NA

Lab ID	Client ID	Matrix	Media	Type	Collection Date	Receive Date	QC Batch (Dilution Factor)[1]		
							Total Cadmium	Total Lead	TPH
600-61851-4	2012-FWFS-4 (Wall)	Solid	Site Soil	MSD	9/24/12	9/25/12	600-89798 (1x)	600-89798 (1x)	NA
600-63252-1	2012-FWFS-3-Wall	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (1x)	600-91862 (1x)
600-63252-2	2012-FWFS-3-Floor	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (1x)	600-91862 (1x)
600-63252-3	2012-FWFS-2-Wall	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (1x)	600-91862 (1x)
600-63252-4	2012-FWFS-2-Floor	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (1x)	600-91862 (1x)
600-63252-5	2012-FWFS-1-Floor	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (10x)	600-91862 (1x)
600-63252-6	2012-FWFS-1-Wall	Solid	Site Soil	INV	10/22/12	10/23/12	600-91839 (1x)	600-91839 (10x)	600-91862 (1x)

EB – Equipment rinsate blank

INV – Investigative sample

NA – Not analyzed

(1) The following analytical methods were used:

- Total Metals (Cd, Pb): SW-846 3050B/6010B
- Total Petroleum Hydrocarbons (TPH): TX1005

TABLE 2
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
FALL 2012 SOIL SAMPLING EVENT

DATA VALIDATION QUALIFIERS (DVQs)

The DVQ replaces all flags applied by the laboratory.

J = Estimated. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. Directional bias cannot be determined

J- = Estimated low. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. The actual value is expected to be lower.

J+ = Estimated high. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. The actual value is expected to be higher.

UJ = Estimated. The analyte was not detected above the reporting limit; however, the reporting limit is approximate due to exceedance of one or more QC requirements.

U = Blank contamination. The analyte was not detected substantially above the level reported in an associated laboratory and/or field blanks.

R = Rejected. The sample result is rejected due to serious QC deficiencies that make it impossible to verify the presence or absence of the analyte.

NOTE: For multiple deficiencies, the reviewer applied the most severe flag. (R>U>J>J-/J+ and R>UJ)

TABLE 3
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
FALL 2012 SOIL SAMPLING EVENT

QC DEFICIENCIES AND DATA QUALIFICATION ACTIONS

Sample					Method		Batch		Date/Time		Analyte		Validation	
Lab ID	**Client ID**	**Type**	**Matrix**	**Diln Factor**	**Prep**	**Analy**	**Prep**	**Analy**	**Prep**	**Analy**	**Name**	**Lab Flag**	**QC Deficiency**	**Action**
MATRIX DUPLICATE (MD) PRECISION														
600-60819-6	2012-FWFS-7 (Wall)	MD	Solid	10	3050B	6010B	600-87946	600-88048	09/05/2012 14:39	09/06/2012 14:01	Lead	F	J/UJ to detects/NDs for similar samples (all diluted FW soils) digested in this batch	Poor MD precision (79 RPD)
600-61851-4	2012-FWFS-4 (Wall)	MD	Solid	1	3050B	6010B	600-89798	600-89809	09/28/2012 10:05	09/28/2012 14:26	Lead	F	J/UJ to detects/NDs for parent sample only (parent and QC samples required filtration to reduce matrix interference)	Poor MD precision (53 RPD)
MATRIX SPIKE DUPLICATE (MSD) PRECISION														
600-60819-6	2012-FWFS-7 (Wall)	MSD	Solid	10	3050B	6010B	600-87946	600-88048	09/05/2012 14:39	09/06/2012 14:05	Lead	4 N	J/UJ to detects/NDs for similar samples (all diluted FW soils) digested in this batch	Poor MSD precision (60 RPD)
600-61851-4	2012-FWFS-4 (Wall)	MSD	Solid	1	3050B	6010B	600-89798	600-89809	09/28/2012 10:05	09/28/2012 14:31	Lead	N	J/UJ to detects/NDs for parent sample only (parent and QC samples required filtration to reduce matrix interference)	Poor MSD precision (54 RPD)
MATRIX SPIKE (MS/MSD) AND POST-DIGESTION SPIKE (PDS) ACCURACY														
600-60819-6	2012-FWFS-7 (Wall)	MS	Solid	10	3050B	6010B	600-87946	600-88048	09/05/2012 14:39	09/06/2012 14:03	Lead	4	None (check waived because unspiked sample conc > 4x spike added)	Extremely low MS recovery (-7635%), PDS/SD (NA)

Sample					Method		Batch		Date/Time		Analyte		Validation	
Lab ID	**Client ID**	**Type**	**Matrix**	**Diln Factor**	**Prep**	**Analy**	**Prep**	**Analy**	**Prep**	**Analy**	**Name**	**Lab Flag**	**QC Deficiency**	**Action**
600-60819-6	2012-FWFS-7 (Wall)	MSD	Solid	10	3050B	6010B	600-87946	600-88048	09/05/2012 14:39	09/06/2012 14:05	Lead	4 N	None (check waived because unspiked sample conc > 4x spike added)	Extremely low MSD recovery (-1702%), PDS/SD (NA)
600-61851-4	2012-FWFS-4 (Wall)	MS	Solid	1	3050B	6010B	600-89798	600-89809	09/28/2012 10:05	09/28/2012 14:28	Lead	N	J to detect for parent sample only (parent and QC samples required filtration to reduce matrix interference)	High MS recovery (145%), PDS passes at 93%, SD passes at 1.7%
600-61851-4	2012-FWFS-4 (Wall)	MSD	Solid	1	3050B	6010B	600-89798	600-89809	09/28/2012 10:05	09/28/2012 14:31	Lead	N	J to detect for parent sample only (parent and QC samples required filtration to reduce matrix interference)	Low MSD recovery (48%), PDS passes at 93%, SD passes at 1.7%
LABORATORY BLANK CONTAMINATION														
MB 600-87946/1-A		MB	Solid	1	3010A	6010B	600-87946	600-87992	09/05/2012 14:39	09/06/2012 11:01	Lead	J	U at RL to Js, J+ to detects <10x blank equivalent concentration for samples digested in the same batch	Laboratory blank contamination (0.1150 J mg/Kg) - none
FIELD QC BLANK														
600-60819-13	2012-FWCS-EB		Water	1	3050B	6010B	600-88007	600-88124	09/06/2012 10:21	09/07/2012 10:01	Lead		U at RL to Js, J+ to detects <10x blank equivalent concentration for FWCS soil samples collected on the same date	Equipment blank contamination (0.520 mg/L)

TABLE 4
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
FALL 2012 SOIL SAMPLING EVENT

QUALIFIED SAMPLE RESULTS

Lab ID	Client ID	Matrix	Diln Factor	Analysis Method	Analyte	Result	Lab Flag	SDL	SQL	Min Req'd RL	Unit	DVQ	Comment
600-60819-1	2012-FWFS-9 (Floor)	Solid	10	6010B	Lead	2800	b	1.05	5.01	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-2	2012-FWFS-9 (Wall)	Solid	10	6010B	Lead	7480	b	1.43	6.81	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-6	2012-FWFS-7 (Wall)	Solid	10	6010B	Lead	8540	b	1.26	6.03	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-7	2012-FWFS-6 (Floor)	Solid	10	6010B	Lead	4860	b	1.28	6.09	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-8	2012-FWFS-6 (Wall)	Solid	10	6010B	Lead	6970	b	1.31	6.26	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-9	2012-FWCS-1 (2-2.5')	Solid	10	6010B	Lead	6270	b	1.14	5.44	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-10	2012-FWCS-12 (0-2')	Solid	10	6010B	Lead	20500	b	1.18	5.64	1.5	mg/Kg	J	Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-60819-11	2012-FWCS-11 (0-2')	Solid	100	6010B	Lead	217	b	11.8	56.2	1.5	mg/Kg	J	Equipment blank contamination (0.520 mg/L); Poor MSD precision (60 RPD); Poor MD precision (79 RPD)
600-61851-4	2012-FWFS-4 (Wall)	Solid	1	6010B	Lead	46.6		0.127	0.603	1.5	mg/Kg	J	High MS recovery (145%), Low MSD recovery (48%), PDS passes at 93%, SD passes at 1.7%; Poor MSD precision (54 RPD); Poor MD precision (53 RPD)
600-63252-1	2012-FWFS-3-Wall	Solid	1	6010B	Cadmium	0.264	J	0.0325	0.317	0.75	mg/Kg	J	Result is between SDL and SQL
600-63252-1	2012-FWFS-3-Wall	Solid	1	TX 1005	>C12-C28	5.17	U	5.17	31.8	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-1	2012-FWFS-3-Wall	Solid	1	TX 1005	>C28-C35	5.17	U	5.17	31.8	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-1	2012-FWFS-3-Wall	Solid	1	TX 1005	C6-C12	4.84	U	4.84	31.8	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-1	2012-FWFS-3-Wall	Solid	1	TX 1005	C6-C35	9.53	U	9.53	31.8	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-2	2012-FWFS-3-Floor	Solid	1	6010B	Cadmium	0.266	J	0.0325	0.317	0.75	mg/Kg	J	Result is between SDL and SQL
600-63252-2	2012-FWFS-3-Floor	Solid	1	TX 1005	>C12-C28	5.40	U	5.40	33.3	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-2	2012-FWFS-3-Floor	Solid	1	TX 1005	>C28-C35	5.40	U	5.40	33.3	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-2	2012-FWFS-3-Floor	Solid	1	TX 1005	C6-C12	5.06	U	5.06	33.3	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C

Lab ID	Client ID	Matrix	Diln Factor	Analysis Method	Analyte	Result	Lab Flag	SDL	SQL	Min Req'd RL	Unit	DVQ	Comment
600-63252-2	2012-FWFS-3-Floor	Solid	1	TX 1005	C6-C35	9.95	U	9.95	33.3	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-3	2012-FWFS-2-Wall	Solid	1	6010B	Cadmium	0.268	J	0.0304	0.296	0.75	mg/Kg	J	Result is between SDL and SQL
600-63252-3	2012-FWFS-2-Wall	Solid	1	TX 1005	>C12-C28	5.07	U	5.07	31.2	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-3	2012-FWFS-2-Wall	Solid	1	TX 1005	>C28-C35	5.07	U	5.07	31.2	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-3	2012-FWFS-2-Wall	Solid	1	TX 1005	C6-C12	4.75	U	4.75	31.2	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-3	2012-FWFS-2-Wall	Solid	1	TX 1005	C6-C35	9.35	U	9.35	31.2	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-4	2012-FWFS-2-Floor	Solid	1	6010B	Cadmium	0.106	J	0.0343	0.334	0.75	mg/Kg	J	Result is between SDL and SQL
600-63252-4	2012-FWFS-2-Floor	Solid	1	TX 1005	>C12-C28	5.40	U	5.40	33.3	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-4	2012-FWFS-2-Floor	Solid	1	TX 1005	>C28-C35	5.40	U	5.40	33.3	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-4	2012-FWFS-2-Floor	Solid	1	TX 1005	C6-C12	5.06	U	5.06	33.3	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-4	2012-FWFS-2-Floor	Solid	1	TX 1005	C6-C35	9.95	U	9.95	33.3	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-5	2012-FWFS-1-Floor	Solid	1	TX 1005	>C12-C28	4.30	U	4.30	26.5	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-5	2012-FWFS-1-Floor	Solid	1	TX 1005	>C28-C35	4.30	U	4.30	26.5	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-5	2012-FWFS-1-Floor	Solid	1	TX 1005	C6-C12	4.02	U	4.02	26.5	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-5	2012-FWFS-1-Floor	Solid	1	TX 1005	C6-C35	7.92	U	7.92	26.5	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-6	2012-FWFS-1-Wall	Solid	1	TX 1005	>C12-C28	5.31	U	5.31	32.7	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-6	2012-FWFS-1-Wall	Solid	1	TX 1005	>C28-C35	5.31	U	5.31	32.7	99	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-6	2012-FWFS-1-Wall	Solid	1	TX 1005	C6-C12	4.97	U	4.97	32.7	33	mg/Kg	UJ	Sample received above 6 C at 9.4 C
600-63252-6	2012-FWFS-1-Wall	Solid	1	TX 1005	C6-C35	9.79	U	9.79	32.7	NA	mg/Kg	UJ	Sample received above 6 C at 9.4 C

ATTACHMENT A
VALIDATOR'S CHECKLISTS

Data Validation Checklist - General

Client Name: PBW		Project Number/ Manager: 1755/Eric Pastor		
Site Name: Exide		QC Level: IV		
Laboratory: TestAmerica (Houston)		Laboratory Job No: 600-60819-1, 600-61851-1, 600-63252-1		
Reviewer: Taryn Scholz		Date Checked: 11/7/12		
Parameters: Cd/Pb, TPH		Methods: SW3050B/ SW6010B, TX1005		
ITEM	**YES**	**NO**	**N/A**	**CRITERIA**
Laboratory NELAP accredited?	x			
Signed Narrative included?	x			
No analytical discrepancies noted in narrative?		x		see Narrative Comments
Chain of Custody (COC)/ Sample Receipt				
Date/time of sample collection included?	x			
Sample temp upon receipt 2-6 C?		x		see comment no. 1
Proper containers/preservation?	x			
COCs properly executed and seals used?	x			some minor discrepancies, see comment no. 2
Samples received within 2 days?	x			
No. of samples analyzed agrees with work plan?	x			(Sampling and Analysis Work Plan, Rev Nov 2011) see comment no. 3
Analytical Results				
Field, Laboratory, and Batch ID included?	x			
Date of sample collection/receipt included?	x			
Date of sample preparation/analysis included?	x			
NDs at DL or QL and J-values as needed?	x			NDs at SDL and J-values reported; SDL,MQL (Adj) included in HC and EDD (called MDL and MQL in EDD)
Target analyte list complete?	x			see comment no. 3
RLs acceptable?	x			SDL <= Delineation Std for NDs
MDLs reasonable per DCS?	x			quarterly DCS spike within 3-5x MDL
No sample dilutions required?		x		dilutions only for detects
Prep/Analysis method references included?	x			
Sample matrix included?	x			
Sample result units reported correctly?	x			mg/kg for soils with dry-wt correction
Soils/sediments on dry weight?	x			
Holding time to analysis not expired?	x			QAPP Table 3
Holding time to preparation not expired?	x			QAPP Table 3
QC Samples				
Lab QC frequency met?	x			1 MB/LCS per 20
Field duplicate frequency met?			x	1/20 for SW, GW
Equipment blank frequency met?		x		1/day/reusable eq type - see comment no. 4
Field blank frequency met?		x		1/day/eq type for VOC (i.e., TPH)
Trip blank frequency met?		x		1/cooler w VOC (i.e., TPH)
MS/MSD or MS/DUP frequency met?			x	1/20 for SW, Sed, GW - see comment no. 5
Completeness criteria met?	x			
Field Notes				
Agree with custody records?			x	not included
Field instruments calibrated daily?			x	
Well conditions constant before sampling?			x	
Samples filtered? If so, give turbid/size			x	

Definitions: AA - Atomic Absorption; CCV - Continuing Calibration Verification; COI - Compound of Interest; %D - Percent Difference, DL - Detection Limit; DUP - Duplicate; FDUP - Field Duplicate; ICP - Inductively Coupled Plasma; ICV - Initial Calibration Verification; IDL - Instrument Detection Limit; LCS - Laboratory Control Sample; MDL - Method Detection Limit; MS/MSD - Matrix Spike/Matrix Spike Duplicate; QL - Quantitation Limit; %R - Percent Recovery; RL - Reporting Limit; RPD - Relative Percent Difference; RRF - Relative Response Factor; RT - Retention Time; RSD - Relative Standard Deviation; TA - Target Analyte

COMMENTS

Comment no. 1
The samples in work order 600-63252 were received at 9.4 C. The samples were analyzed for total cadmium and lead, which requires preservation at 4±2 C per Table 3 in the QAPP. However, no preservation is required for metals in solid samples per the analytical method and thus analyte degradation is not suspected and the metals results were not qualified. The samples were also analyzed for TPH, which requires preservation at 4+2 C per Table 3 in the QAPP and the analytical method. Per the NFG, professional judgment should be used to qualify organic samples whose temperature upon receipt at the laboratory is above 6 degrees centigrade. The samples were collected using a bulk sampling technique into completely filled containers with lined lids and were received securely sealed and on ice within 24-hours of collection. They were frozen upon receipt until prep and analysis. For each of these samples, the results for all of the C-ranges (C6-C35) are reported as non-detect. The validator qualified these non-detects as estimated (UJ).
Comment no. 2
For work order 600-60819-1, the chain-of-custody does not include a designation under sample type (composite or grab). The sampler confirmed that all samples are grab samples.
For the equipment blank 2012-FWCS-EB (laboratory ID 600-60819-13), the chain-of-custody indicates that no preservative was used for the metals aliquot. The laboratory confirmed that the sample was properly preserved (pH < 2) during sample receipt.
Comment no. 3
The flood wall - facility side (FWFS) samples were collected as delineated in the work plan. The flood wall - creek side (FWCS) samples are additional samples collected based on first round results.
Comment no. 4
One equipment blank was collected with the FWCS samples on 9/4/12 and analyzed for lead. Disposable equipment used for FWFS samples. No trip blank was shipped with any of the TPH samples.
Comment no. 4
No field MS/MSD collected or required for these soil samples, but the laboratory selected two project samples (2012-FWFS-7 (Wall) and 2012-FWFS-4 (Wall)) for MS/MSD for Cd/Pb and one for TPH (2012-FWFS-4 (Wall)).

Lab Job No.	Method	Batch/Sample	Narrative Comment	Validator Action
600-60819-1	6010B	87946	Pb >MDL but < MQL in prep blank, appropriate flags applied	flagged per NFG
		-6 MS/D	%R out for Pb but background result > 4x spk added, LCS passes	none - check waived
		-6 MSD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-6 MD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-1,2,6-10	SDL for Pb elev due to high conc	NA (detects only)
		-1	SDL for Cd elev due to high conc	NA (detect only)
600-61851-1	6010B	-4 and MS/MSD/MD	sample required filtration to reduce matrix interference	noted and used for assessing MS/MSD
		-4 and MS/MSD	%R for Pb outside limit due to MI, LCS passes	flagged per NFG
		-4 MSD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-4 MD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-2	SDL for Pb elev due to high conc	NA (detects only)
	TX1005	NA	lab selected sample from another group for MS/MSD	MS/MSD not assessed
600-63252-1	6010B	all	sx received at 9.4 C	none - cooling not req'd per method
	6010B	NA	lab selected sample from another group for MS/MSD/MD/PDS/SD	MS/MSD/MD/PDS/SD not assessed
	6010B	-5,6	SDL for Pb elev due to high conc	NA (detects only)
	TX1005	all	sx received at 9.4 C	flagged per NFG
	TX1005	NA	lab selected sample from another group for MS/MSD	MS/MSD not assessed

Data Validation Checklist: GC

Client Name: PBW	Project Number/ Manager: 1755/Eric Pastor
Site Name: Exide	QC Level: IV
Laboratory: TestAmerica (Houston)	Laboratory Job No: 600-60819-1, 600-61851-1, 600-63252-1
Reviewer: Taryn Scholz	Date Checked: 11/7/12
Parameters: TPH	Methods: TX1005

%PERFORMED/	ITEM	YES	NO	N/A	CRITERIA
	Method blank data included in Lab Package?	x			
	Criteria met? (<MDL)	x			
100	Criteria met for field blanks? (<MDL)			x	
	QC check samples/LCS data included in lab package?	x			
	All project COCs or TAs included?		x		>C28-C35 not spiked
	%R criteria met? (individual and overall)	x			method (75-125%)
100	RPD criteria met?			x	
	Matrix spike data included in lab package?	x			
	%R criteria met? (individual and overall)	x			method (75-125%)
100	RPD criteria met?	x			method (20%)
	Surrogate data included in lab package?	x			
	Required surrogates included?	x			
100	%R criteria met? (individual and overall)	x			
100	Field dup RPD criteria met? (individual, mean, and overall)			x	20% aq, 35% solid (+/-2RL aq, +/-3RL sol if either ≤5RL)
	Initial calibration documentation included in lab package?	x			
	All target analytes included?	x			
100	%RSD criteria met? (method ≤25% or r≥0.995)	x			
	Calibration verification data included in lab package?	x			
100	%R criteria met? (method +/-25%)	x			
	Dual column/detector confirmation used?			x	
NA	%Difference criteria met? (<40%)			x	
10	Analyte qualitative ID criteria met?	x			
10	Analyte quantitation/RLs correct?	x			
	QC parameters calculated correctly?	x		.	
	Surrogate / **Control Limits**				
	o-Terphenyl / 70-130% (aq,sol)				

COMMENTS

Data Validation Checklist: Metals

Client Name: PBW		Project Number/ Manager: 1755/Eric Pastor			
Site Name: Exide		QC Level: IV			
Laboratory: TestAmerica (Houston)		Laboratory Job No: 600-60819-1, 600-61851-1, 600-63252-1			
Reviewer: Taryn Scholz		Date Checked: 11/7/12			
Parameters: Cd/Pb		Methods: SW3050B/ SW6010B			
%PERFORMED/	**ITEM**	**YES**	**NO**	**N/A**	**CRITERIA**
	Method blank data included in Lab Package?	x			
	Criteria met? (< MDL, ≥ -RL)		x		see QC Deficiencies
100	Criteria met for field blanks? (< MDL)		x		see QC Deficiencies
	QC check samples/LCS data included in lab package?	x			
	All project COCs or TAs included?	x			
100	%R criteria met? (individual and overall)	x			method (75-125%)
	Matrix spike data included in lab package?	x			
100	%R criteria met? (individual and overall)		x		method (75-125%); see QC Deficiencies
	Sample duplicate data included in lab package?	x			
100	RPD criteria met?		x		method (20%), NFG (+/-RL if either ≤ 5I see QC Deficiencies
100	Field dup RPD criteria met? (individual, mean, and overall)			x	20% aq, 35% solid (+/-2RL aq, +/-3RL sol if either ≤5RL)
	Instrument Tune for ICP-MS included in lab package?			x	
NA	Instrument Tune method criteria met? (±5 RSD, ±0.1 amu)			x	
	Initial calibration documentation included in lab package?	x			
	All target analytes included?	x			
	blank/1 std (ICP), blank/ 5 stds (Hg)	x			
100	Corr coeff (r) criteria met? (≥0.995)			x	
	Calibration verification data included in lab package?	x			
	ICB/CCB criteria met? (<MDL, ≥-RL)	x			
	ICV %R criteria met? (ICP 90-110%, Hg 80-120%)	x			
	CCV %R criteria met? (ICP 90-110%, Hg 80-120%)	x			
100	LLCCV %R criteria met? (70-130%)	x			reported for instrument TJA1 but not Thermo6500 - not req'd by method so no further action
	Interference check sample data included (ICP/MS only)?	x			
100	%R criteria met? (80-120%)	x			
	Dilution test data included?	x			
100	Results within 10% original? (if >50xMDL)	x			
	Post digestion spike included?	x			
100	%R criteria met?	x			method (75-125%)
	Internal standard data included in lab package?			x	
NA	Intensities within limits? (min 30-120% of calib std)			x	
10	Analyte quantitation/RLs correct?	x			
	QC parameters calculated correctly?	x			

COMMENTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-60819-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Matt Sutherland

Authorized for release by:
9/27/2012 1:33:06 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 13
Method Summary 14
Sample Summary 15
Client Sample Results 16
Definitions/Glossary 21
Surrogate Summary 22
QC Sample Results 23
Default Detection Limits 26
QC Association Summary 27
Lab Chronicle 30
Certification Summary 33
Raw Data 34
Chain of Custody 538
Receipt Checklists 540

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-60819-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		09/27/2012
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/19/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-60819
Reviewer Name: TWR	Prep Batch Number(s): 600-88007(w), 87946(s)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/19/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-60819
Reviewer Name: TWR	Prep Batch Number(s): 600-88007(w), 87946(s)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 09/19/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-60819
Reviewer Name: TWR	Prep Batch Number(s): 600-88007(w), 87946(s)- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank for batch 87946. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recoveries in samples 60819-6 MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by an acceptable LCS recovery.
3	The lead RPD between samples 60819-6 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
4	The lead RPD between samples and 60819-6 and 60819-6 MD was above acceptance limits due to the non-homogenous nature of the samples.
5	The lead SDLs in samples 60819-1, 2, 6, 7, 8, 9, 10, and 11 and the cadmium SDL in sample 60819-1 were elevated due to the high concentrations of these analytes.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/12/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-60819
Reviewer Name: RJV	Prep Batch Number(s): 600-88381- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/12/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-60819
Reviewer Name: RJV	Prep Batch Number(s): 600-88381- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 09/12/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-60819
Reviewer Name: RJV	Prep Batch Number(s): 600-88381- TX1005

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	5/29/2012
Date Prepared:	5/28/2012
Instrument:	TJA1
TALS Batches:	80197
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.7115	25
Antimony	0.231553	0.45	0.379	2.5
Arsenic	0.217923	0.5	0.5415	1
Barium	0.011322	0.03	0.0305	1
Beryllium	0.014513	0.02	0.016	0.25
Boron	0.385535	0.6	0.6075	20
Cadmium	0.025642	0.05	0.047	0.25
Calcium	0.86399	1.5	2.849	100
Chromium	0.050606	0.1	0.0985	0.5
Cobalt	0.067622	0.1	0.0715	0.5
Copper	0.173703	0.5	0.43	0.5
Iron	2.534007	4	3.355	20
Lead	0.104832	0.2	0.2035	0.5
Selenium	0.258884	0.5	0.543	2
Manganese	0.038111	0.05	0.05	1.5
Molybdenum	0.136448	0.35	0.385	0.5
Nickel	0.116599	0.15	0.1435	1
Silver	0.118848	0.2	0.2	0.5
Sodium	0.885548	2.4	0.75	100
Strontium	0.00252	0.005	0.904	0.25
Thallium	0.276988	0.7	0.84	1.5
Tin	0.08729	0.15	0.126	1
Titanium	0.014529	0.03	0.0245	0.5
Vanadium	0.079068	0.15	0.1385	0.5
Zinc	0.108432	0.2	0.063	1.5

Detection Check Standard

Matrix:	Water
Method:	200.7/6010
Preparation:	200.7P/3010
Date Analyzed:	5/29/2012
Date Prepared:	5/28/2012
Instrument:	TJA1
TALs Batches:	80197
Units:	mg/L

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.006	0.02	0.02316	0.5
Antimony	0.0063	0.01	0.01026	0.05
Arsenic	0.0033	0.01	0.00791	0.01
Barium	0.0022	0.005	0.00479	0.02
Beryllium	0.00134	0.002	0.00373	0.005
Boron	0.0077	0.02	0.02048	0.2
Cadmium	0.00073	0.001	0.00087	0.005
Calcium	0.022	0.05	0.05712	1
Chromium	0.0016	0.002	0.00396	0.01
Cobalt	0.00063	0.001	0.00031	0.01
Copper	0.0014	0.002	0.0017	0.01
Iron	0.087	0.1	0.06997	0.4
Lithium	0.0024	0.005	0.00351	0.2
Lead	0.0029	0.005	0.00453	0.01
Selenium	0.0042	0.01	0.01081	0.04
Manganese	0.00084	0.002	0.00197	0.01
Molybdenum	0.0027	0.005	0.00513	0.01
Nickel	0.00179	0.005	0.00463	0.01
Silver	0.0012	0.0025	0.00187	0.01
Sodium	0.02	0.05	0.02173	1
Strontium	0.0005	0.001	0.00099	0.005
Thallium	0.0078	0.02	0.01801	0.03
Tin	0.0028	0.005	0.000381	0.01
Titanium	0.0011	0.002	0.00198	0.01
Vanadium	0.0017	0.002	0.00376	0.01
Zinc	0.0022	0.005	0.0013	0.01

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	Ray
Date Analyzed:	4/4/2012
Date Prepared:	4/4/2012
Data File:	B040412_005.d
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	4.67	20	29.71	25
>C12-C28	6.06	20	34.51	25
Total C6-C35	9.59	40	64.23	25

Job ID: 600-60819-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-60819-1

Comments
No additional comments.

Receipt
The samples were received on 9/5/2012 9:06 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.9º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Method	Method Description	Protocol	Laboratory
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-60819-1	2012-FWFS-9 (Floor)	Solid	09/04/12 11:02	09/05/12 09:06
600-60819-2	2012-FWFS-9 (Wall)	Solid	09/04/12 11:06	09/05/12 09:06
600-60819-3	2012-FWFS-8 (Floor)	Solid	09/04/12 11:17	09/05/12 09:06
600-60819-4	2012-FWFS-8 (Wall)	Solid	09/04/12 11:21	09/05/12 09:06
600-60819-5	2012-FWFS-7 (Floor)	Solid	09/04/12 11:29	09/05/12 09:06
600-60819-6	2012-FWFS-7 (Wall)	Solid	09/04/12 11:32	09/05/12 09:06
600-60819-7	2012-FWFS-6 (Floor)	Solid	09/04/12 11:44	09/05/12 09:06
600-60819-8	2012-FWFS-6 (Wall)	Solid	09/04/12 11:50	09/05/12 09:06
600-60819-9	2012-FWCS-1 (2-2.5')	Solid	09/04/12 14:18	09/05/12 09:06
600-60819-10	2012-FWCS-12 (0-2')	Solid	09/04/12 15:41	09/05/12 09:06
600-60819-11	2012-FWCS-11 (0-2')	Solid	09/04/12 15:55	09/05/12 09:06
600-60819-13	2012-FWCS-EB	Water	09/04/12 16:40	09/05/12 09:06

Client Sample ID: 2012-FWFS-9 (Floor)

Lab Sample ID: 600-60819-1

Date Collected: 09/04/12 11:02
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 96.0

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.93	U	25.9	3.93	mg/Kg	☼	09/11/12 11:27	09/11/12 14:02	1
>C12-C28	4.20	U	25.9	4.20	mg/Kg	☼	09/11/12 11:27	09/11/12 14:02	1
>C28-C35	4.20	U	25.9	4.20	mg/Kg	☼	09/11/12 11:27	09/11/12 14:02	1
C6-C35	7.74	U	25.9	7.74	mg/Kg	☼	09/11/12 11:27	09/11/12 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*70 - 130*	*09/11/12 11:27*	*09/11/12 14:02*	*1*

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**984**		2.50	0.257	mg/Kg	☼	09/05/12 14:39	09/06/12 13:54	10
Lead	**2800**	b	5.01	1.05	mg/Kg	☼	09/05/12 14:39	09/06/12 13:54	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.0**		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	**96**		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-9 (Wall)

Lab Sample ID: 600-60819-2

Date Collected: 09/04/12 11:06
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 72.7

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.20	U	34.2	5.20	mg/Kg	☼	09/11/12 11:27	09/11/12 14:36	1
>C12-C28	5.56	U	34.2	5.56	mg/Kg	☼	09/11/12 11:27	09/11/12 14:36	1
>C28-C35	5.56	U	34.2	5.56	mg/Kg	☼	09/11/12 11:27	09/11/12 14:36	1
C6-C35	10.2	U	34.2	10.2	mg/Kg	☼	09/11/12 11:27	09/11/12 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*70 - 130*	*09/11/12 11:27*	*09/11/12 14:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**15.2**		0.341	0.0349	mg/Kg	☼	09/05/12 14:39	09/06/12 11:35	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7480**	b	6.81	1.43	mg/Kg	☼	09/05/12 14:39	09/06/12 13:56	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27**		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	**73**		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-8 (Floor)

Lab Sample ID: 600-60819-3

Date Collected: 09/04/12 11:17
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.2

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.99	U	32.8	4.99	mg/Kg	☼	09/11/12 11:27	09/11/12 15:10	1
>C12-C28	5.33	U	32.8	5.33	mg/Kg	☼	09/11/12 11:27	09/11/12 15:10	1

Client Sample ID: 2012-FWFS-8 (Floor)

Lab Sample ID: 600-60819-3

Date Collected: 09/04/12 11:17
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.2

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	5.33	U	32.8	5.33	mg/Kg	☼	09/11/12 11:27	09/11/12 15:10	1
C6-C35	9.82	U	32.8	9.82	mg/Kg	☼	09/11/12 11:27	09/11/12 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*70 - 130*	*09/11/12 11:27*	*09/11/12 15:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**10.1**		0.325	0.0333	mg/Kg	☼	09/05/12 14:39	09/06/12 11:38	1
Lead	**537**	**b**	0.650	0.136	mg/Kg	☼	09/05/12 14:39	09/06/12 11:38	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24**		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	**76**		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-8 (Wall)

Lab Sample ID: 600-60819-4

Date Collected: 09/04/12 11:21
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 79.1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.79	U	31.5	4.79	mg/Kg	☼	09/11/12 11:27	09/11/12 15:44	1
>C12-C28	5.12	U	31.5	5.12	mg/Kg	☼	09/11/12 11:27	09/11/12 15:44	1
>C28-C35	5.12	U	31.5	5.12	mg/Kg	☼	09/11/12 11:27	09/11/12 15:44	1
C6-C35	9.43	U	31.5	9.43	mg/Kg	☼	09/11/12 11:27	09/11/12 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*70 - 130*	*09/11/12 11:27*	*09/11/12 15:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**3.34**		0.316	0.0324	mg/Kg	☼	09/05/12 14:39	09/06/12 11:40	1
Lead	**1550**	**b**	0.632	0.133	mg/Kg	☼	09/05/12 14:39	09/06/12 11:40	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21**		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	**79**		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-7 (Floor)

Lab Sample ID: 600-60819-5

Date Collected: 09/04/12 11:29
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.93	U	32.5	4.93	mg/Kg	☼	09/11/12 11:27	09/11/12 16:19	1
>C12-C28	5.27	U	32.5	5.27	mg/Kg	☼	09/11/12 11:27	09/11/12 16:19	1
>C28-C35	5.27	U	32.5	5.27	mg/Kg	☼	09/11/12 11:27	09/11/12 16:19	1
C6-C35	9.71	U	32.5	9.71	mg/Kg	☼	09/11/12 11:27	09/11/12 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*70 - 130*	*09/11/12 11:27*	*09/11/12 16:19*	*1*

Client Sample ID: 2012-FWFS-7 (Floor)
Lab Sample ID: 600-60819-5

Date Collected: 09/04/12 11:29
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.559		0.307	0.0315	mg/Kg	☼	09/05/12 14:39	09/06/12 11:43	1
Lead	28.6	b	0.614	0.129	mg/Kg	☼	09/05/12 14:39	09/06/12 11:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	77		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-7 (Wall)
Lab Sample ID: 600-60819-6

Date Collected: 09/04/12 11:32
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 81.3

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.66	U	30.7	4.66	mg/Kg	☼	09/11/12 11:27	09/11/12 16:53	1
>C12-C28	4.98	U	30.7	4.98	mg/Kg	☼	09/11/12 11:27	09/11/12 16:53	1
>C28-C35	4.98	U	30.7	4.98	mg/Kg	☼	09/11/12 11:27	09/11/12 16:53	1
C6-C35	9.18	U	30.7	9.18	mg/Kg	☼	09/11/12 11:27	09/11/12 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*70 - 130*	*09/11/12 11:27*	*09/11/12 16:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	34.8		0.302	0.0309	mg/Kg	☼	09/05/12 14:39	09/06/12 11:46	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8540	b	6.03	1.26	mg/Kg	☼	09/05/12 14:39	09/06/12 13:58	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	81		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-6 (Floor)
Lab Sample ID: 600-60819-7

Date Collected: 09/04/12 11:44
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.95	U	32.6	4.95	mg/Kg	☼	09/11/12 11:27	09/11/12 19:10	1
>C12-C28	5.29	U	32.6	5.29	mg/Kg	☼	09/11/12 11:27	09/11/12 19:10	1
>C28-C35	5.29	U	32.6	5.29	mg/Kg	☼	09/11/12 11:27	09/11/12 19:10	1
C6-C35	9.74	U	32.6	9.74	mg/Kg	☼	09/11/12 11:27	09/11/12 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*70 - 130*	*09/11/12 11:27*	*09/11/12 19:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	387		0.304	0.0312	mg/Kg	☼	09/05/12 14:39	09/06/12 12:03	1

Client Sample ID: 2012-FWFS-6 (Floor)
Lab Sample ID: 600-60819-7

Date Collected: 09/04/12 11:44
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4860	b	6.09	1.28	mg/Kg	☼	09/05/12 14:39	09/06/12 14:07	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	77		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWFS-6 (Wall)
Lab Sample ID: 600-60819-8

Date Collected: 09/04/12 11:50
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 78.3

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.84	U	31.9	4.84	mg/Kg	☼	09/11/12 11:27	09/11/12 19:45	1
>C12-C28	5.17	U	31.9	5.17	mg/Kg	☼	09/11/12 11:27	09/11/12 19:45	1
>C28-C35	5.17	U	31.9	5.17	mg/Kg	☼	09/11/12 11:27	09/11/12 19:45	1
C6-C35	9.53	U	31.9	9.53	mg/Kg	☼	09/11/12 11:27	09/11/12 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*70 - 130*	*09/11/12 11:27*	*09/11/12 19:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	68.9		0.313	0.0321	mg/Kg	☼	09/05/12 14:39	09/06/12 12:05	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6970	b	6.26	1.31	mg/Kg	☼	09/05/12 14:39	09/06/12 14:09	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	78		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWCS-1 (2-2.5')
Lab Sample ID: 600-60819-9

Date Collected: 09/04/12 14:18
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 90.1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6270	b	5.44	1.14	mg/Kg	☼	09/05/12 14:39	09/06/12 14:12	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	90		1.0	1.0	%			09/05/12 13:15	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Client Sample ID: 2012-FWCS-12 (0-2')

Lab Sample ID: 600-60819-10

Date Collected: 09/04/12 15:41
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 87.7

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20500	b	5.64	1.18	mg/Kg	☼	09/05/12 14:39	09/06/12 14:14	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	88		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWCS-11 (0-2')

Lab Sample ID: 600-60819-11

Date Collected: 09/04/12 15:55
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 87.3

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	217	b	56.2	11.8	mg/Kg	☼	09/05/12 14:39	09/06/12 14:23	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			09/05/12 13:15	1
Percent Solids	87		1.0	1.0	%			09/05/12 13:15	1

Client Sample ID: 2012-FWCS-EB

Lab Sample ID: 600-60819-13

Date Collected: 09/04/12 16:40
Matrix: Water
Date Received: 09/05/12 09:06

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.520		0.0100	0.00290	mg/L		09/06/12 10:21	09/07/12 10:01	1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	OTPH (70-130)								
600-60819-1	2012-FWFS-9 (Floor)	87								
600-60819-2	2012-FWFS-9 (Wall)	89								
600-60819-3	2012-FWFS-8 (Floor)	88								
600-60819-4	2012-FWFS-8 (Wall)	88								
600-60819-5	2012-FWFS-7 (Floor)	88								
600-60819-6	2012-FWFS-7 (Wall)	94								
600-60819-6 MS	2012-FWFS-7 (Wall)	103								
600-60819-6 MSD	2012-FWFS-7 (Wall)	102								
600-60819-7	2012-FWFS-6 (Floor)	89								
600-60819-8	2012-FWFS-6 (Wall)	89								
LCS 600-88381/2-A	Lab Control Sample	103								
MB 600-88381/1-A	Method Blank	90								

Surrogate Legend

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-88381/1-A
Matrix: Solid
Analysis Batch: 88431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88381

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	25.0	3.80	mg/Kg		09/11/12 11:27	09/11/12 12:54	1
>C12-C28	4.06	U	25.0	4.06	mg/Kg		09/11/12 11:27	09/11/12 12:54	1
>C28-C35	4.06	U	25.0	4.06	mg/Kg		09/11/12 11:27	09/11/12 12:54	1
C6-C35	7.48	U	25.0	7.48	mg/Kg		09/11/12 11:27	09/11/12 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*70 - 130*	*09/11/12 11:27*	*09/11/12 12:54*	*1*

Lab Sample ID: LCS 600-88381/2-A
Matrix: Solid
Analysis Batch: 88431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	250	232.6		mg/Kg		93	75 - 125
>C12-C28	250	213.9		mg/Kg		86	75 - 125
C6-C35	500	446.5		mg/Kg		89	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 600-60819-6 MS
Matrix: Solid
Analysis Batch: 88431

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 88381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	4.66	U	307	288.4		mg/Kg	☼	94	75 - 125
>C12-C28	4.98	U	307	262.8		mg/Kg	☼	86	75 - 125
C6-C35	9.18	U	613	551.2		mg/Kg	☼	90	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 600-60819-6 MSD
Matrix: Solid
Analysis Batch: 88431

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 88381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	4.66	U	306	288.0		mg/Kg	☼	94	75 - 125	0	20
>C12-C28	4.98	U	306	263.5		mg/Kg	☼	86	75 - 125	0	20
C6-C35	9.18	U	613	551.5		mg/Kg	☼	90	75 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*102*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-87946/1-A
Matrix: Solid
Analysis Batch: 87992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87946

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		09/05/12 14:39	09/06/12 11:01	1
Lead	0.1150	J	0.500	0.105	mg/Kg		09/05/12 14:39	09/06/12 11:01	1

Lab Sample ID: LCS 600-87946/2-A
Matrix: Solid
Analysis Batch: 87992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	71.0	72.59		mg/Kg		102	81 - 119
Lead	144	146.5		mg/Kg		102	79 - 121

Lab Sample ID: 600-60819-6 MS
Matrix: Solid
Analysis Batch: 87992

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	34.8		29.6	70.11		mg/Kg	☼	119	75 - 125

Lab Sample ID: 600-60819-6 MSD
Matrix: Solid
Analysis Batch: 87992

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	34.8		30.8	68.11		mg/Kg	☼	108	75 - 125	3	20

Lab Sample ID: 600-60819-6 DU
Matrix: Solid
Analysis Batch: 87992

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	34.8		41.83		mg/Kg	☼	18	20

Lab Sample ID: MB 600-88007/1-A
Matrix: Water
Analysis Batch: 88124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88007

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00290	U	0.0100	0.00290	mg/L		09/06/12 10:21	09/07/12 09:04	1

Lab Sample ID: LCS 600-88007/2-A
Matrix: Water
Analysis Batch: 88124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.007		mg/L		101	80 - 120

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Method: 6010B - Metals (ICP) - DL

Lab Sample ID: 600-60819-6 MS
Matrix: Solid
Analysis Batch: 88048

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium - DL	37.0		29.6	72.36		mg/Kg	☼	120	75 - 125
Lead - DL	8540	b	59.2	4025	4	mg/Kg	☼	-7635	75 - 125

Lab Sample ID: 600-60819-6 MSD
Matrix: Solid
Analysis Batch: 88048

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium - DL	37.0		30.8	73.65		mg/Kg	☼	119	75 - 125	2	20
Lead - DL	8540	b	61.5	7494	4 N	mg/Kg	☼	-1702	75 - 125	60	20

Lab Sample ID: 600-60819-6 DU
Matrix: Solid
Analysis Batch: 88048

Client Sample ID: 2012-FWFS-7 (Wall)
Prep Type: Total/NA
Prep Batch: 87946

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium - DL	37.0		43.99		mg/Kg	☼	17	20
Lead - DL	8540	b	3685	F	mg/Kg	☼	79	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-60819-10 DU
Matrix: Solid
Analysis Batch: 87931

Client Sample ID: 2012-FWCS-12 (0-2')
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12		15		%		20	
Percent Solids	88		85		%		3	

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	25.0	4.06	mg/Kg	TX 1005
>C28-C35	25.0	4.06	mg/Kg	TX 1005
C6-C12	25.0	3.80	mg/Kg	TX 1005
C6-C35	25.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Lead	0.0100	0.00290	mg/L	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC Semi VOA

Prep Batch: 88381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-1	2012-FWFS-9 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-2	2012-FWFS-9 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-3	2012-FWFS-8 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-4	2012-FWFS-8 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-5	2012-FWFS-7 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-6	2012-FWFS-7 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-6 MS	2012-FWFS-7 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-6 MSD	2012-FWFS-7 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-7	2012-FWFS-6 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-60819-8	2012-FWFS-6 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-88381/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-88381/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 88431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-1	2012-FWFS-9 (Floor)	Total/NA	Solid	TX 1005	88381
600-60819-2	2012-FWFS-9 (Wall)	Total/NA	Solid	TX 1005	88381
600-60819-3	2012-FWFS-8 (Floor)	Total/NA	Solid	TX 1005	88381
600-60819-4	2012-FWFS-8 (Wall)	Total/NA	Solid	TX 1005	88381
600-60819-5	2012-FWFS-7 (Floor)	Total/NA	Solid	TX 1005	88381
600-60819-6	2012-FWFS-7 (Wall)	Total/NA	Solid	TX 1005	88381
600-60819-6 MS	2012-FWFS-7 (Wall)	Total/NA	Solid	TX 1005	88381
600-60819-6 MSD	2012-FWFS-7 (Wall)	Total/NA	Solid	TX 1005	88381
600-60819-7	2012-FWFS-6 (Floor)	Total/NA	Solid	TX 1005	88381
600-60819-8	2012-FWFS-6 (Wall)	Total/NA	Solid	TX 1005	88381
LCS 600-88381/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	88381
MB 600-88381/1-A	Method Blank	Total/NA	Solid	TX 1005	88381

Metals

Prep Batch: 87946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-1 - DL	2012-FWFS-9 (Floor)	Total/NA	Solid	3050B	
600-60819-2	2012-FWFS-9 (Wall)	Total/NA	Solid	3050B	
600-60819-2 - DL	2012-FWFS-9 (Wall)	Total/NA	Solid	3050B	
600-60819-3	2012-FWFS-8 (Floor)	Total/NA	Solid	3050B	
600-60819-4	2012-FWFS-8 (Wall)	Total/NA	Solid	3050B	
600-60819-5	2012-FWFS-7 (Floor)	Total/NA	Solid	3050B	
600-60819-6	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 DU - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 DU	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 MS - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 87946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-6 MS	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 MSD - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-6 MSD	2012-FWFS-7 (Wall)	Total/NA	Solid	3050B	
600-60819-7	2012-FWFS-6 (Floor)	Total/NA	Solid	3050B	
600-60819-7 - DL	2012-FWFS-6 (Floor)	Total/NA	Solid	3050B	
600-60819-8	2012-FWFS-6 (Wall)	Total/NA	Solid	3050B	
600-60819-8 - DL	2012-FWFS-6 (Wall)	Total/NA	Solid	3050B	
600-60819-9 - DL	2012-FWCS-1 (2-2.5')	Total/NA	Solid	3050B	
600-60819-10 - DL	2012-FWCS-12 (0-2')	Total/NA	Solid	3050B	
600-60819-11 - DL	2012-FWCS-11 (0-2')	Total/NA	Solid	3050B	
LCS 600-87946/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-87946/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 87992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-2	2012-FWFS-9 (Wall)	Total/NA	Solid	6010B	87946
600-60819-3	2012-FWFS-8 (Floor)	Total/NA	Solid	6010B	87946
600-60819-4	2012-FWFS-8 (Wall)	Total/NA	Solid	6010B	87946
600-60819-5	2012-FWFS-7 (Floor)	Total/NA	Solid	6010B	87946
600-60819-6	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 DU	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 MS	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 MSD	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-7	2012-FWFS-6 (Floor)	Total/NA	Solid	6010B	87946
600-60819-8	2012-FWFS-6 (Wall)	Total/NA	Solid	6010B	87946
LCS 600-87946/2-A	Lab Control Sample	Total/NA	Solid	6010B	87946
MB 600-87946/1-A	Method Blank	Total/NA	Solid	6010B	87946

Prep Batch: 88007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-13	2012-FWCS-EB	Total/NA	Water	3010A	
LCS 600-88007/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 600-88007/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 88048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-1 - DL	2012-FWFS-9 (Floor)	Total/NA	Solid	6010B	87946
600-60819-2 - DL	2012-FWFS-9 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 DU - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 MS - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-6 MSD - DL	2012-FWFS-7 (Wall)	Total/NA	Solid	6010B	87946
600-60819-7 - DL	2012-FWFS-6 (Floor)	Total/NA	Solid	6010B	87946
600-60819-8 - DL	2012-FWFS-6 (Wall)	Total/NA	Solid	6010B	87946
600-60819-9 - DL	2012-FWCS-1 (2-2.5')	Total/NA	Solid	6010B	87946
600-60819-10 - DL	2012-FWCS-12 (0-2')	Total/NA	Solid	6010B	87946
600-60819-11 - DL	2012-FWCS-11 (0-2')	Total/NA	Solid	6010B	87946

Analysis Batch: 88124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-13	2012-FWCS-EB	Total/NA	Water	6010B	88007
LCS 600-88007/2-A	Lab Control Sample	Total/NA	Water	6010B	88007

Metals (Continued)

Analysis Batch: 88124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-88007/1-A	Method Blank	Total/NA	Water	6010B	88007

General Chemistry

Analysis Batch: 87931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-60819-1	2012-FWFS-9 (Floor)	Total/NA	Solid	Moisture	
600-60819-2	2012-FWFS-9 (Wall)	Total/NA	Solid	Moisture	
600-60819-3	2012-FWFS-8 (Floor)	Total/NA	Solid	Moisture	
600-60819-4	2012-FWFS-8 (Wall)	Total/NA	Solid	Moisture	
600-60819-5	2012-FWFS-7 (Floor)	Total/NA	Solid	Moisture	
600-60819-6	2012-FWFS-7 (Wall)	Total/NA	Solid	Moisture	
600-60819-7	2012-FWFS-6 (Floor)	Total/NA	Solid	Moisture	
600-60819-8	2012-FWFS-6 (Wall)	Total/NA	Solid	Moisture	
600-60819-9	2012-FWCS-1 (2-2.5')	Total/NA	Solid	Moisture	
600-60819-10	2012-FWCS-12 (0-2')	Total/NA	Solid	Moisture	
600-60819-10 DU	2012-FWCS-12 (0-2')	Total/NA	Solid	Moisture	
600-60819-11	2012-FWCS-11 (0-2')	Total/NA	Solid	Moisture	

Client Sample ID: 2012-FWFS-9 (Floor)

Lab Sample ID: 600-60819-1

Date Collected: 09/04/12 11:02
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 14:02	RV	TAL HOU
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 13:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-9 (Wall)

Lab Sample ID: 600-60819-2

Date Collected: 09/04/12 11:06
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 14:36	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 11:35	DCL	TAL HOU
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 13:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-8 (Floor)

Lab Sample ID: 600-60819-3

Date Collected: 09/04/12 11:17
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 15:10	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 11:38	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-8 (Wall)

Lab Sample ID: 600-60819-4

Date Collected: 09/04/12 11:21
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 15:44	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 11:40	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-7 (Floor)

Lab Sample ID: 600-60819-5

Date Collected: 09/04/12 11:29
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 16:19	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 11:43	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-7 (Wall)

Lab Sample ID: 600-60819-6

Date Collected: 09/04/12 11:32
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 16:53	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 11:46	DCL	TAL HOU
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 13:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-6 (Floor)

Lab Sample ID: 600-60819-7

Date Collected: 09/04/12 11:44
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 19:10	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 12:03	DCL	TAL HOU
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 14:07	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWFS-6 (Wall)

Lab Sample ID: 600-60819-8

Date Collected: 09/04/12 11:50
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			88381	09/11/12 11:27	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	88431	09/11/12 19:45	RV	TAL HOU
Total/NA	Prep	3050B			87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	87992	09/06/12 12:05	DCL	TAL HOU
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 14:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Client Sample ID: 2012-FWCS-1 (2-2.5')

Lab Sample ID: 600-60819-9

Date Collected: 09/04/12 14:18
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 14:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWCS-12 (0-2')

Lab Sample ID: 600-60819-10

Date Collected: 09/04/12 15:41
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	88048	09/06/12 14:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWCS-11 (0-2')

Lab Sample ID: 600-60819-11

Date Collected: 09/04/12 15:55
Matrix: Solid
Date Received: 09/05/12 09:06
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		87946	09/05/12 14:39	NER	TAL HOU
Total/NA	Analysis	6010B	DL	100	88048	09/06/12 14:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	87931	09/05/12 13:15	AS	TAL HOU

Client Sample ID: 2012-FWCS-EB

Lab Sample ID: 600-60819-13

Date Collected: 09/04/12 16:40
Matrix: Water
Date Received: 09/05/12 09:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			88007	09/06/12 10:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	88124	09/07/12 10:01	DCL	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-60819-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAC Secondary AB	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAC	6	T104704223-10-6-TX	10-31-12
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAC	8	GULF	10-31-12

TX_1005

Texas - Total Petroleum Hydrocarbon (GC) by Method TX_1005

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	OTPH #
2012-FWFS-9 (Floor)	600-60819-1	87
2012-FWFS-9 (Wall)	600-60819-2	89
2012-FWFS-8 (Floor)	600-60819-3	88
2012-FWFS-8 (Wall)	600-60819-4	88
2012-FWFS-7 (Floor)	600-60819-5	88
2012-FWFS-7 (Wall)	600-60819-6	94
2012-FWFS-6 (Floor)	600-60819-7	89
2012-FWFS-6 (Wall)	600-60819-8	89
	MB 600-88381/1-A	90
	LCS 600-88381/2-A	103
2012-FWFS-7 (Wall) MS	600-60819-6 MS	103
2012-FWFS-7 (Wall) MSD	600-60819-6 MSD	102

	QC LIMITS
OTPH = o-Terphenyl	70-130

Column to be used to flag recovery values

FORM II TX 1005

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: A091112_004.d

Lab ID: LCS 600-88381/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
C6-C12	250	232.6	93	75-125	
>C12-C28	250	213.9	86	75-125	
C6-C35	500	446.5	89	75-125	

Column to be used to flag recovery and RPD values

FORM III TX 1005

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: A091112_011.d

Lab ID: 600-60819-6 MS Client ID: 2012-FWFS-7 (Wall) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
C6-C12	307	4.66 U	288.4	94	75-125	
>C12-C28	307	4.98 U	262.8	86	75-125	
C6-C35	613	9.18 U	551.2	90	75-125	

Column to be used to flag recovery and RPD values

FORM III TX 1005

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: A091112_012.d

Lab ID: 600-60819-6 MSD Client ID: 2012-FWFS-7 (Wall) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
C6-C12	306	288.0	94	0	20	75-125	
>C12-C28	306	263.5	86	0	20	75-125	
C6-C35	613	551.5	90	0	20	75-125	

Column to be used to flag recovery and RPD values

FORM III TX 1005

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab File ID: A091112_003.d Lab Sample ID: MB 600-88381/1-A

Matrix: Solid Date Extracted: 09/11/2012 11:27

Instrument ID: FID07 Date Analyzed: 09/11/2012 12:54

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-88381/2-A	A091112_004.d	09/11/2012 13:28
2012-FWFS-9 (Floor)	600-60819-1	A091112_005.d	09/11/2012 14:02
2012-FWFS-9 (Wall)	600-60819-2	A091112_006.d	09/11/2012 14:36
2012-FWFS-8 (Floor)	600-60819-3	A091112_007.d	09/11/2012 15:10
2012-FWFS-8 (Wall)	600-60819-4	A091112_008.d	09/11/2012 15:44
2012-FWFS-7 (Floor)	600-60819-5	A091112_009.d	09/11/2012 16:19
2012-FWFS-7 (Wall)	600-60819-6	A091112_010.d	09/11/2012 16:53
2012-FWFS-7 (Wall) MS	600-60819-6 MS	A091112_011.d	09/11/2012 17:28
2012-FWFS-7 (Wall) MSD	600-60819-6 MSD	A091112_012.d	09/11/2012 18:02
2012-FWFS-6 (Floor)	600-60819-7	A091112_014.d	09/11/2012 19:10
2012-FWFS-6 (Wall)	600-60819-8	A091112_015.d	09/11/2012 19:45

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Sample No.: CCVRT 600-88431/1 Date Analyzed: 09/11/2012 09:08

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): A091112_002.d Heated Purge: (Y/N) N

Calibration ID: 1123

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				13.32		
UPPER LIMIT				13.42		
LOWER LIMIT				13.22		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 600-88431/1		09/11/2012 09:08	A091112_002.d	13.32		
MB 600-88381/1-A		09/11/2012 12:54	A091112_003.d	13.32		
LCS 600-88381/2-A		09/11/2012 13:28	A091112_004.d	13.32		
600-60819-1	2012-FWFS-9 (Floor)	09/11/2012 14:02	A091112_005.d	13.31		
600-60819-2	2012-FWFS-9 (Wall)	09/11/2012 14:36	A091112_006.d	13.32		
600-60819-3	2012-FWFS-8 (Floor)	09/11/2012 15:10	A091112_007.d	13.32		
600-60819-4	2012-FWFS-8 (Wall)	09/11/2012 15:44	A091112_008.d	13.32		
600-60819-5	2012-FWFS-7 (Floor)	09/11/2012 16:19	A091112_009.d	13.32		
600-60819-6	2012-FWFS-7 (Wall)	09/11/2012 16:53	A091112_010.d	13.32		
600-60819-6 MS	2012-FWFS-7 (Wall) MS	09/11/2012 17:28	A091112_011.d	13.32		
600-60819-6 MSD	2012-FWFS-7 (Wall) MSD	09/11/2012 18:02	A091112_012.d	13.32		
CCV 600-88431/12		09/11/2012 18:36	A091112_013.d	13.32		
600-60819-7	2012-FWFS-6 (Floor)	09/11/2012 19:10	A091112_014.d	13.32		
600-60819-8	2012-FWFS-6 (Wall)	09/11/2012 19:45	A091112_015.d	13.32		
CCV 600-88431/22		09/12/2012 00:52	A091112_024.d	13.32		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII TX 1005

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-9 (Floor) Lab Sample ID: 600-60819-1

Matrix: Solid Lab File ID: A091112_005.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:02

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.07(g) Date Analyzed: 09/11/2012 14:02

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 4.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	3.93	U	25.9	3.93
STL00035	>C12-C28	4.20	U	25.9	4.20
STL00147	>C28-C35	4.20	U	25.9	4.20
STL00006	C6-C35	7.74	U	25.9	7.74

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_005.d
Lab Smp Id: 600-60819-B-1-B Client Smp ID: 2012-FWFS-9 (Floor)
Inj Date : 11-SEP-2012 14:02
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-1-B
Misc Info : 600-60819-B-1-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.070	Sample Weight
Uf	2.000	Unit Factor
M	4.018	% Moisture
Cpnd Variable		Local Compound Variable

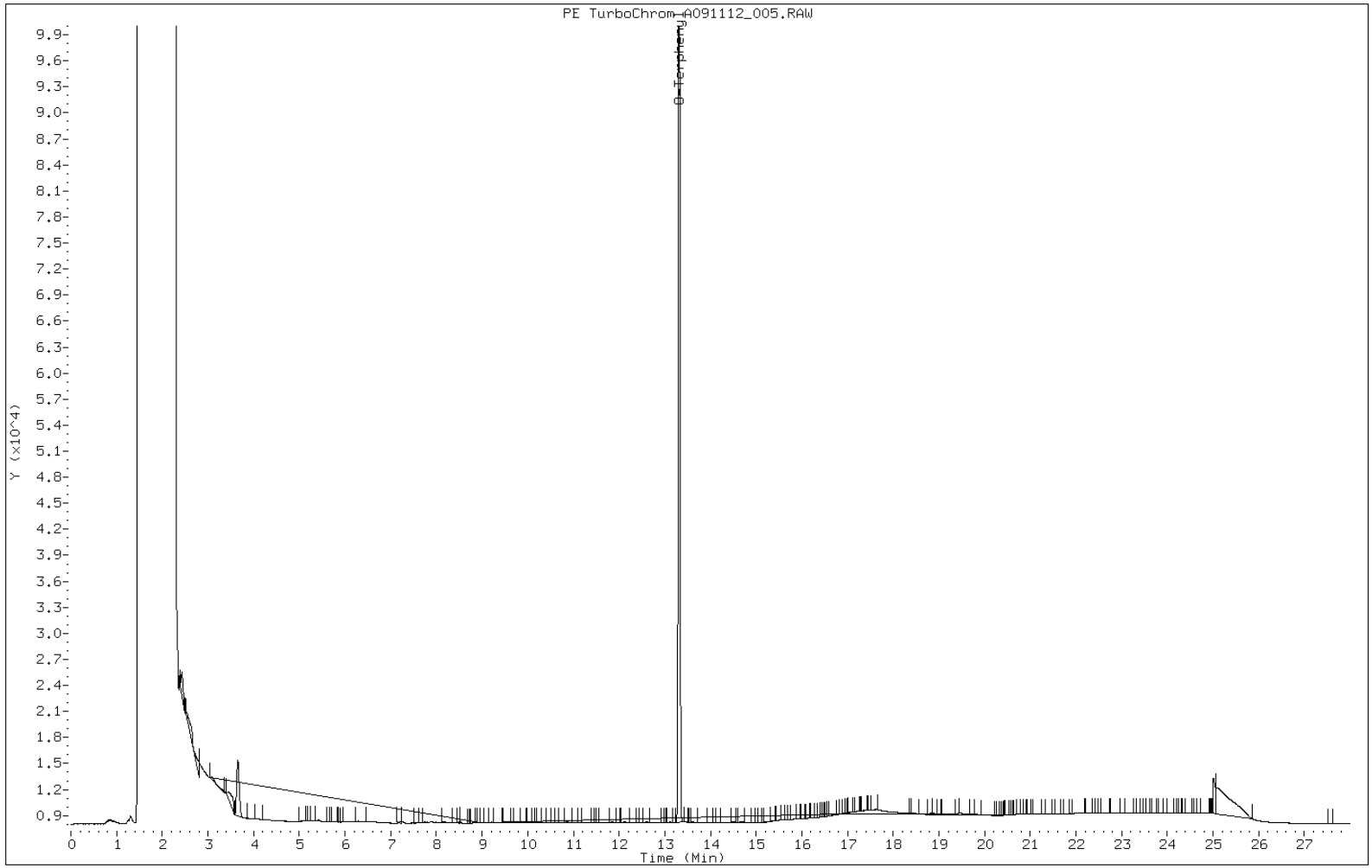
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.313	13.357	-0.044	313688	10.9362	11.31

Data File: A091112_005.d

Date: 11-SEP-2012 14:02

Client ID: 2012-FWFS-9 (Floor) Instrument: FID-07.i

Sample Info: 600-60819-B-1-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-9 (Wall) Lab Sample ID: 600-60819-2

Matrix: Solid Lab File ID: A091112_006.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:06

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.05(g) Date Analyzed: 09/11/2012 14:36

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 27.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	5.20	U	34.2	5.20
STL00035	>C12-C28	5.56	U	34.2	5.56
STL00147	>C28-C35	5.56	U	34.2	5.56
STL00006	C6-C35	10.2	U	34.2	10.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_006.d
Lab Smp Id: 600-60819-B-2-B Client Smp ID: 2012-FWFS-9 (Wall)
Inj Date : 11-SEP-2012 14:36
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-2-B
Misc Info : 600-60819-B-2-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.050	Sample Weight
Uf	2.000	Unit Factor
M	27.347	% Moisture
Cpnd Variable		Local Compound Variable

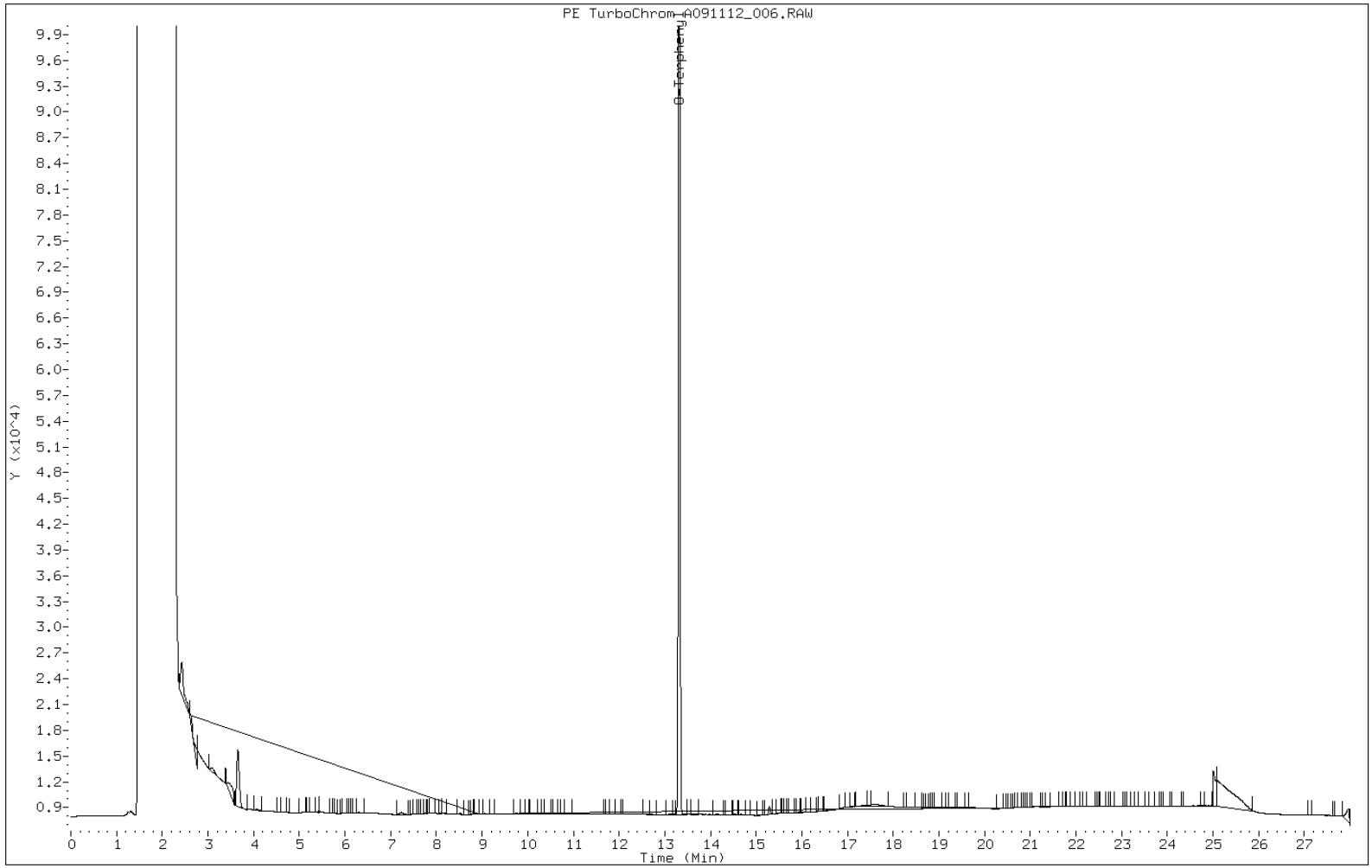
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	318064	11.0887	15.19

Data File: A091112_006.d

Date: 11-SEP-2012 14:36

Client ID: 2012-FWFS-9 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-2-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-8 (Floor) Lab Sample ID: 600-60819-3

Matrix: Solid Lab File ID: A091112_007.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:17

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.00(g) Date Analyzed: 09/11/2012 15:10

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 23.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.99	U	32.8	4.99
STL00035	>C12-C28	5.33	U	32.8	5.33
STL00147	>C28-C35	5.33	U	32.8	5.33
STL00006	C6-C35	9.82	U	32.8	9.82

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_007.d
Lab Smp Id: 600-60819-B-3-B Client Smp ID: 2012-FWFS-8 (Floor)
Inj Date : 11-SEP-2012 15:10
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-3-B
Misc Info : 600-60819-B-3-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	23.849	% Moisture
Cpnd Variable		Local Compound Variable

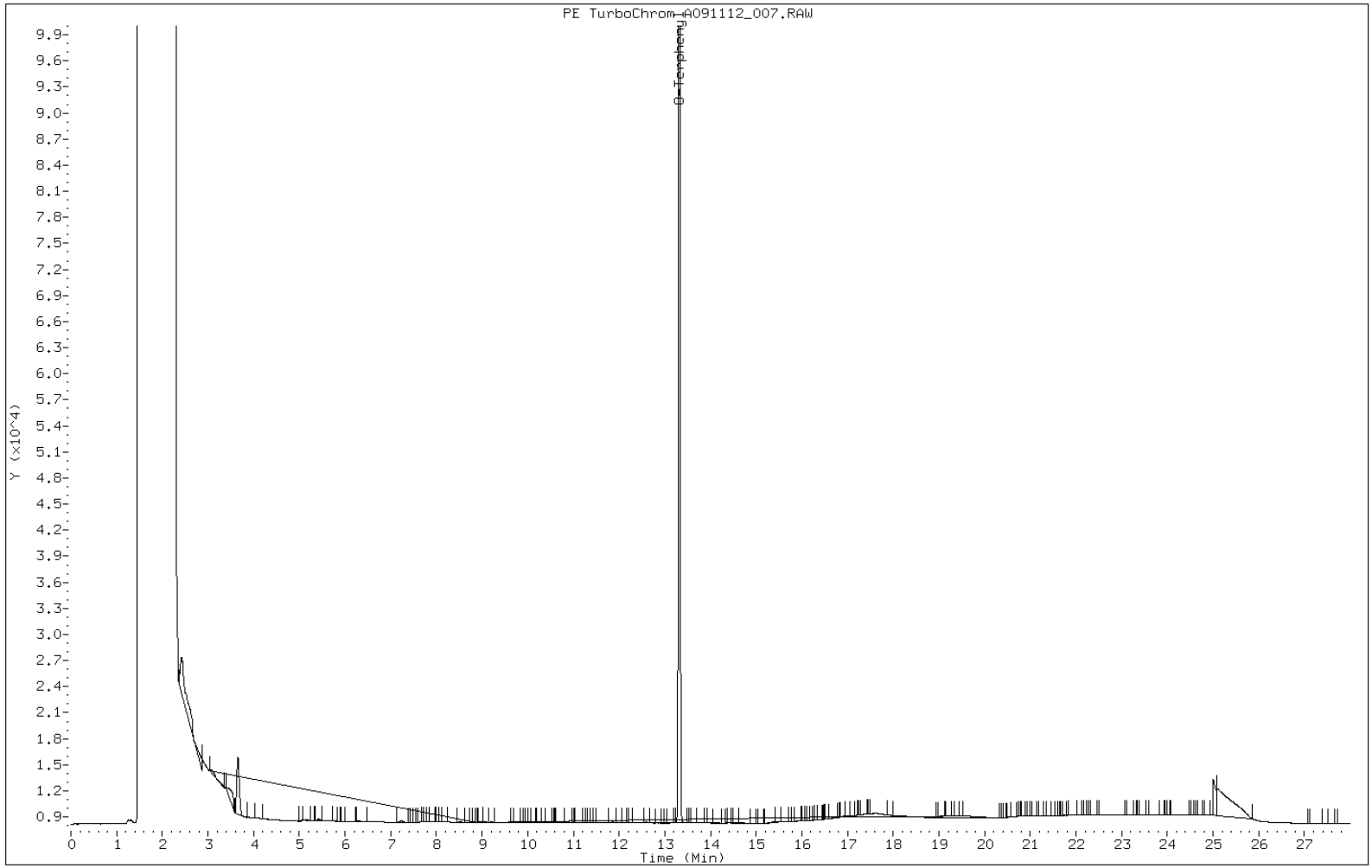
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	313990		10.9467	14.38

Data File: A091112_007.d

Date: 11-SEP-2012 15:10

Client ID: 2012-FWFS-8 (Floor) Instrument: FID-07.i

Sample Info: 600-60819-B-3-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-8 (Wall) Lab Sample ID: 600-60819-4

Matrix: Solid Lab File ID: A091112_008.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:21

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.03(g) Date Analyzed: 09/11/2012 15:44

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 20.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.79	U	31.5	4.79
STL00035	>C12-C28	5.12	U	31.5	5.12
STL00147	>C28-C35	5.12	U	31.5	5.12
STL00006	C6-C35	9.43	U	31.5	9.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_008.d
Lab Smp Id: 600-60819-B-4-B Client Smp ID: 2012-FWFS-8 (Wall)
Inj Date : 11-SEP-2012 15:44
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-4-B
Misc Info : 600-60819-B-4-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.030	Sample Weight
Uf	2.000	Unit Factor
M	20.945	% Moisture
Cpnd Variable		Local Compound Variable

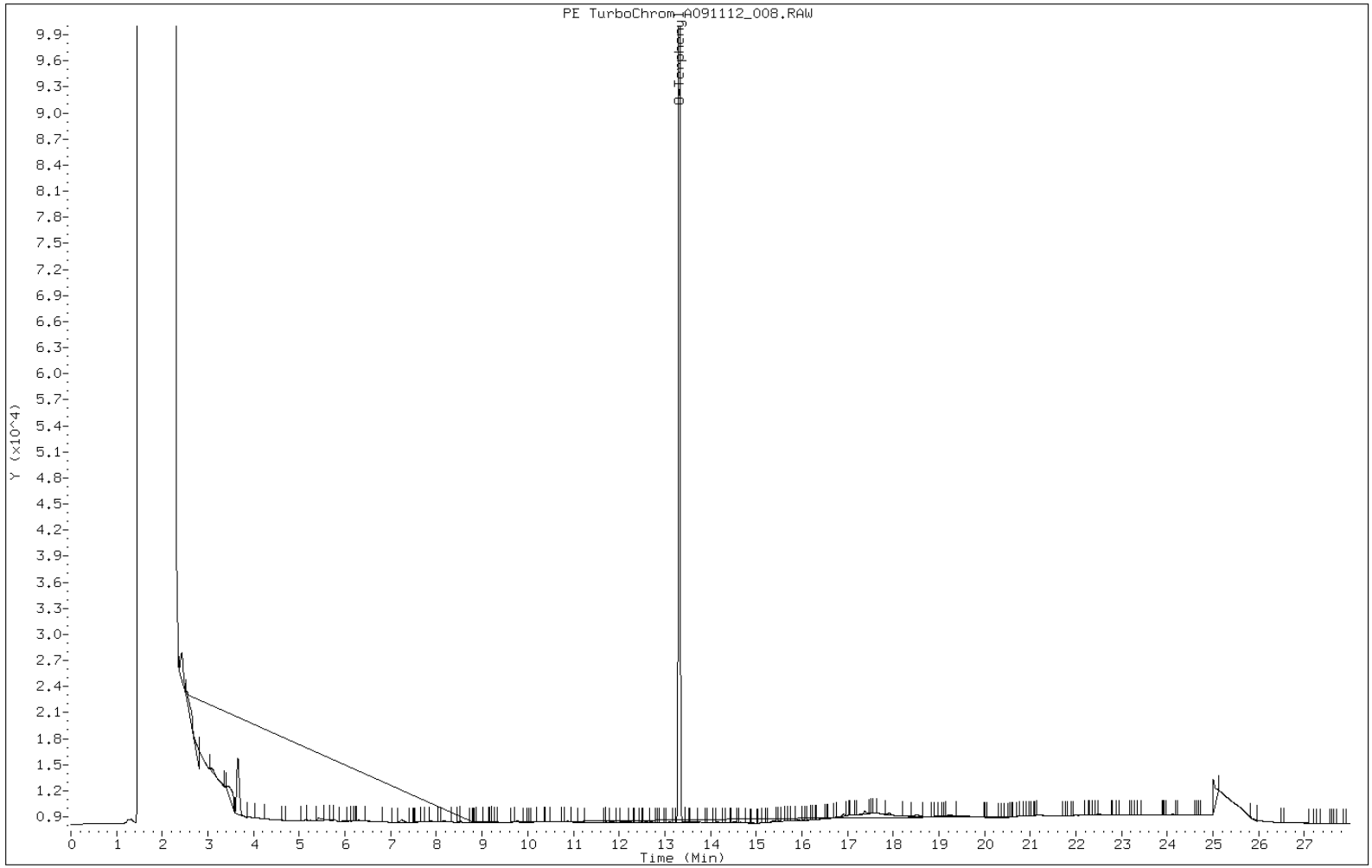
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	316226		11.0247	13.90

Data File: A091112_008.d

Date: 11-SEP-2012 15:44

Client ID: 2012-FWFS-8 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-4-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-7 (Floor) Lab Sample ID: 600-60819-5

Matrix: Solid Lab File ID: A091112_009.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:29

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.03(g) Date Analyzed: 09/11/2012 16:19

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 23.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.93	U	32.5	4.93
STL00035	>C12-C28	5.27	U	32.5	5.27
STL00147	>C28-C35	5.27	U	32.5	5.27
STL00006	C6-C35	9.71	U	32.5	9.71

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_009.d
Lab Smp Id: 600-60819-B-5-B Client Smp ID: 2012-FWFS-7 (Floor)
Inj Date : 11-SEP-2012 16:19
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-5-B
Misc Info : 600-60819-B-5-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.030	Sample Weight
Uf	2.000	Unit Factor
M	23.220	% Moisture
Cpnd Variable		Local Compound Variable

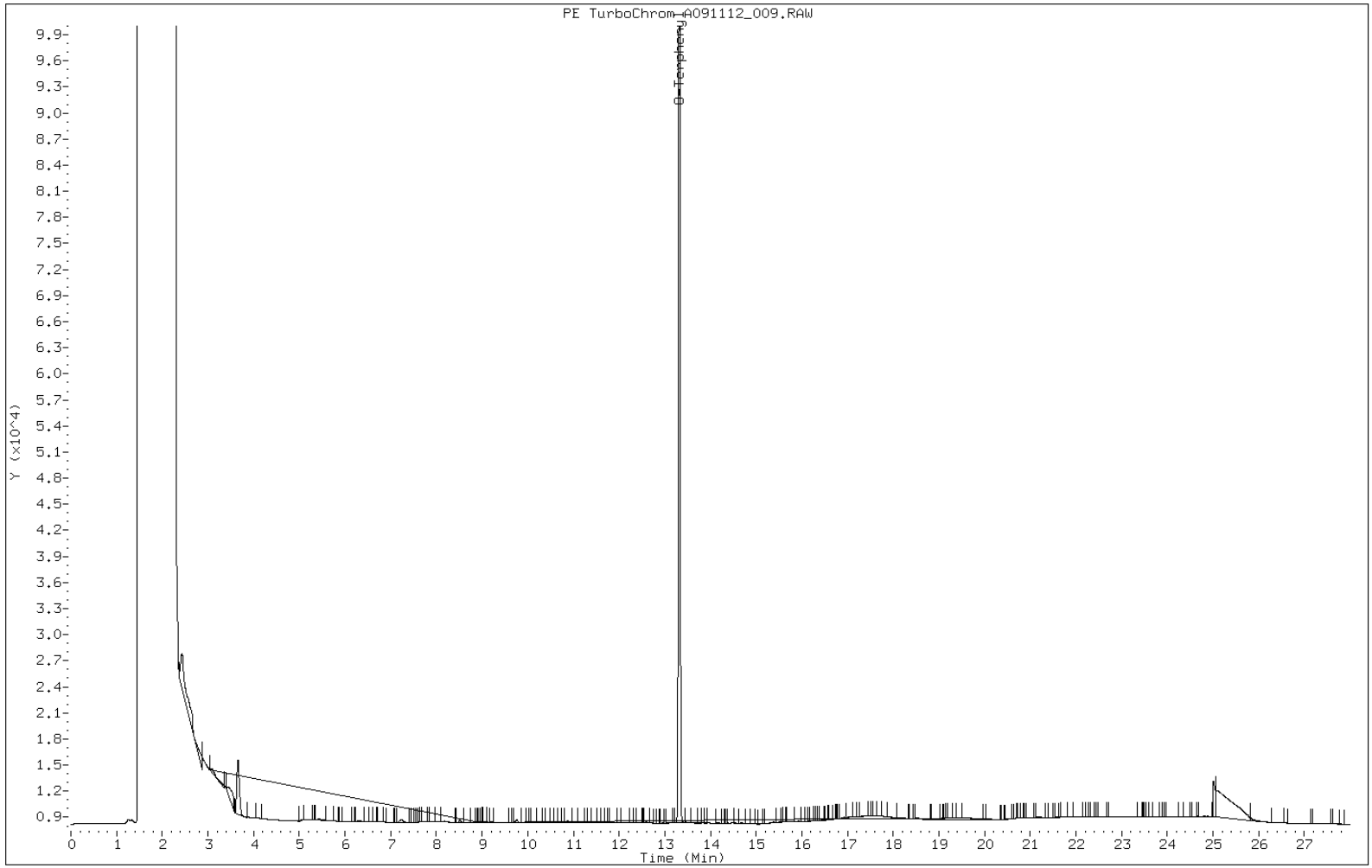
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	313956		10.9455	14.21

Data File: A091112_009.d

Date: 11-SEP-2012 16:19

Client ID: 2012-FWFS-7 (Floor) Instrument: FID-07.i

Sample Info: 600-60819-B-5-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-7 (Wall) Lab Sample ID: 600-60819-6

Matrix: Solid Lab File ID: A091112_010.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:32

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.03(g) Date Analyzed: 09/11/2012 16:53

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.66	U	30.7	4.66
STL00035	>C12-C28	4.98	U	30.7	4.98
STL00147	>C28-C35	4.98	U	30.7	4.98
STL00006	C6-C35	9.18	U	30.7	9.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_010.d
Lab Smp Id: 600-60819-B-6-E Client Smp ID: 2012-FWFS-7 (Wall)
Inj Date : 11-SEP-2012 16:53
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-6-E
Misc Info : 600-60819-B-6-E
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.030	Sample Weight
Uf	2.000	Unit Factor
M	18.740	% Moisture
Cpnd Variable		Local Compound Variable

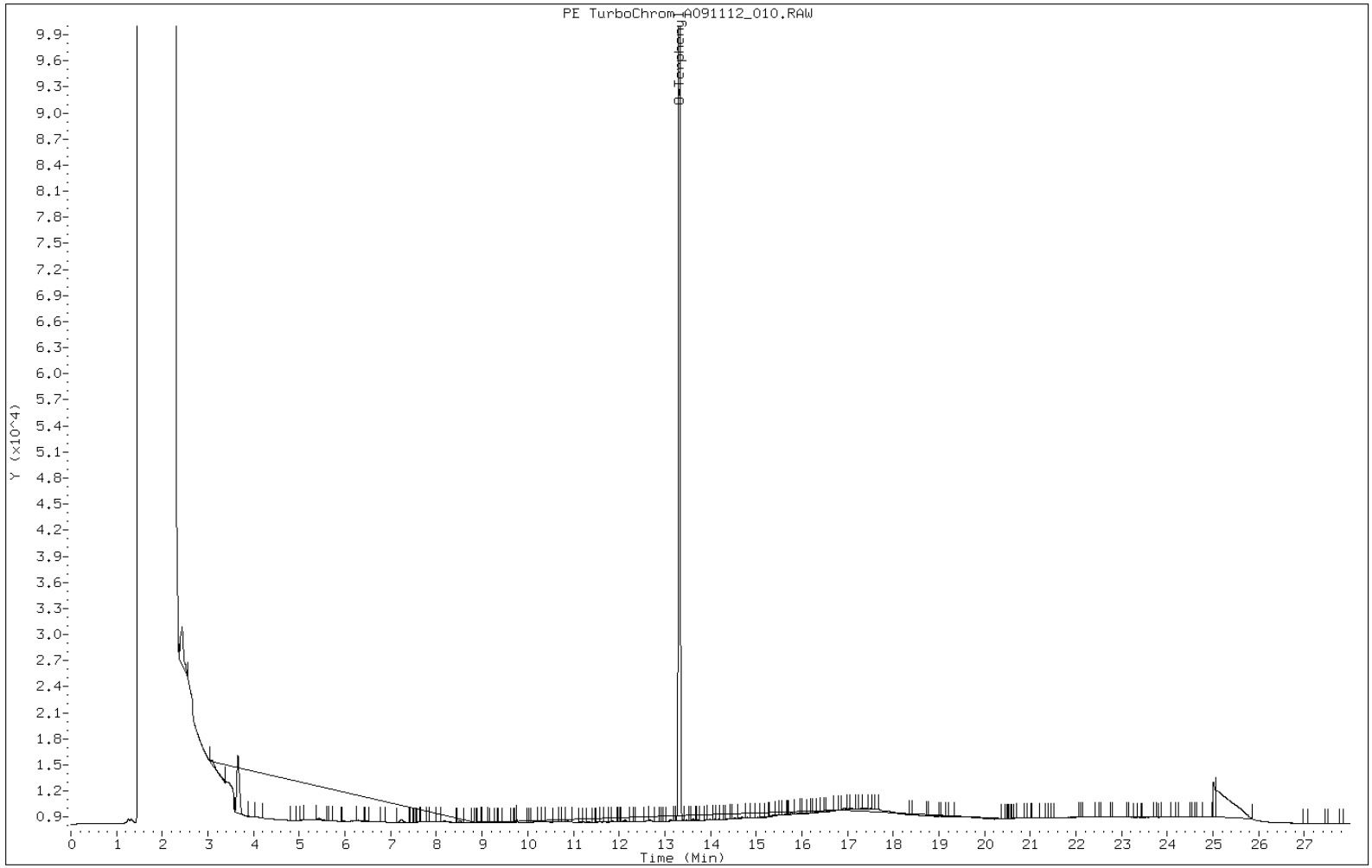
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	335496	11.6965	14.35

Data File: A091112_010.d

Date: 11-SEP-2012 16:53

Client ID: 2012-FWFS-7 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-6-E Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-6 (Floor) Lab Sample ID: 600-60819-7

Matrix: Solid Lab File ID: A091112_014.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:44

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.00(g) Date Analyzed: 09/11/2012 19:10

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 23.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.95	U	32.6	4.95
STL00035	>C12-C28	5.29	U	32.6	5.29
STL00147	>C28-C35	5.29	U	32.6	5.29
STL00006	C6-C35	9.74	U	32.6	9.74

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_014.d
Lab Smp Id: 600-60819-B-7-B Client Smp ID: 2012-FWFS-6 (Floor)
Inj Date : 11-SEP-2012 19:10
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-7-B
Misc Info : 600-60819-B-7-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	23.236	% Moisture
Cpnd Variable		Local Compound Variable

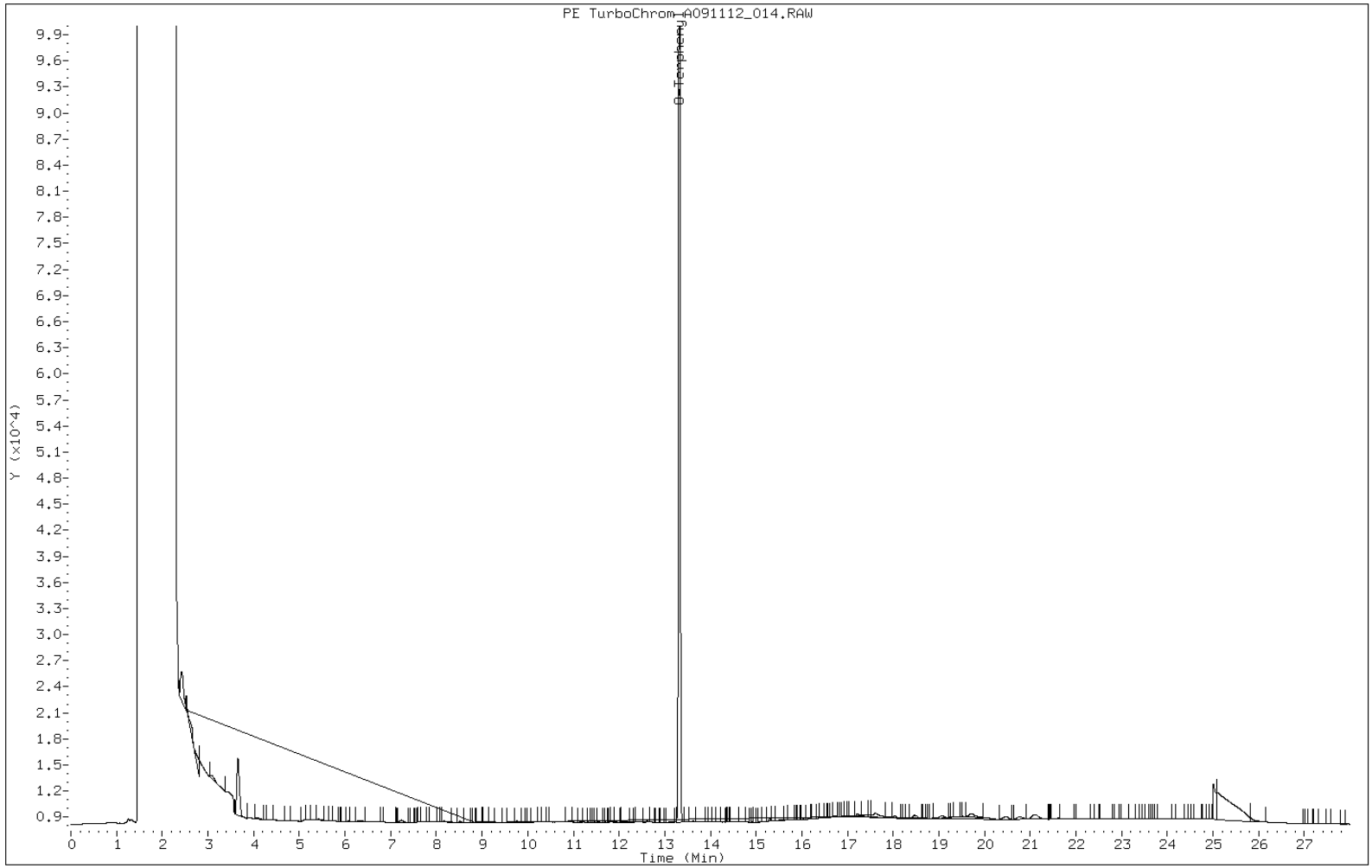
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	320741		11.1821	14.57

Data File: A091112_014.d

Date: 11-SEP-2012 19:10

Client ID: 2012-FWFS-6 (Floor) Instrument: FID-07.i

Sample Info: 600-60819-B-7-B Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-6 (Wall) Lab Sample ID: 600-60819-8

Matrix: Solid Lab File ID: A091112_015.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:50

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.02(g) Date Analyzed: 09/11/2012 19:45

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 21.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.84	U	31.9	4.84
STL00035	>C12-C28	5.17	U	31.9	5.17
STL00147	>C28-C35	5.17	U	31.9	5.17
STL00006	C6-C35	9.53	U	31.9	9.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_015.d
Lab Smp Id: 600-60819-B-8-B Client Smp ID: 2012-FWFS-6 (Wall)
Inj Date : 11-SEP-2012 19:45
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-8-B
Misc Info : 600-60819-B-8-B
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.020	Sample Weight
Uf	2.000	Unit Factor
M	21.691	% Moisture
Cpnd Variable		Local Compound Variable

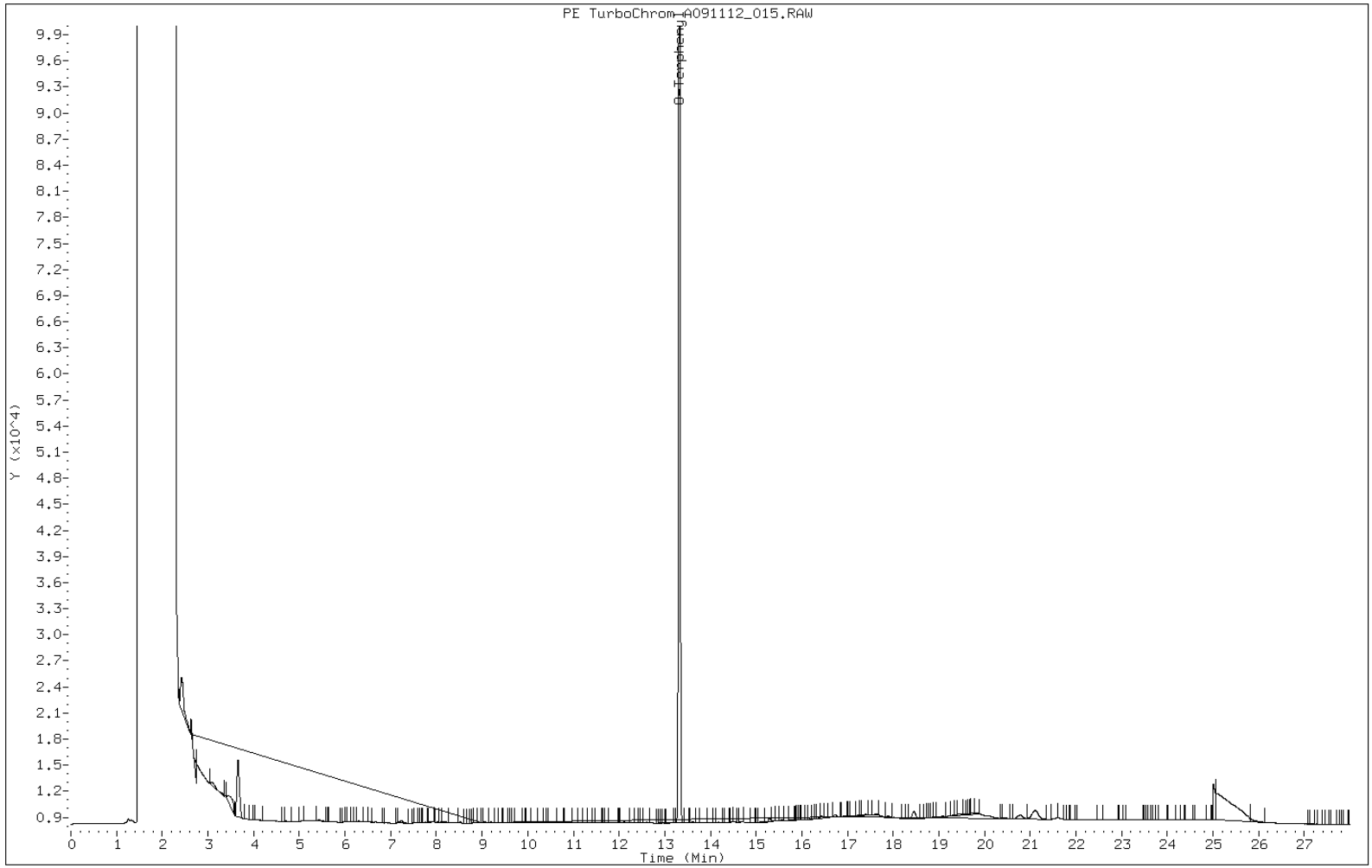
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	13.316	13.357	-0.041	317588	11.0721	14.11

Data File: A091112_015.d

Date: 11-SEP-2012 19:45

Client ID: 2012-FWFS-6 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-8-B Operator: vanderborghr



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-60819-1 Analy Batch No.: 79369

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2012 17:00 Calibration End Date: 05/15/2012 20:26 Calibration ID: 1123

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-79369/1	A051512_004.d
Level 2	IC 600-79369/2	A051512_005.d
Level 3	IC 600-79369/3	A051512_006.d
Level 4	ICRT 600-79369/4	A051512_007.d
Level 5	IC 600-79369/5	A051512_008.d
Level 6	IC 600-79369/6	A051512_009.d
Level 7	IC 600-79369/7	A051512_010.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
C6-C12	5.753	5.753	5.753	5.753	5.753	5.753	5.753				2.540 - 8.966	5.753
C6-C35	11.551	11.551	11.551	11.551	11.551	11.551	11.551				2.540 - 20.562	11.551
>C12-C28	12.915	12.915	12.915	12.915	12.915	12.915	12.915				8.966 - 16.864	12.915
>C28-C35	18.713	18.713	18.713	18.713	18.713	18.713	18.713				16.864 - 20.562	18.713
o-Terphenyl	13.327	13.327	13.327	13.327	13.327	13.327	13.327				13.227 - 13.427	13.327

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-60819-1 Analy Batch No.: 79369

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2012 17:00 Calibration End Date: 05/15/2012 20:26 Calibration ID: 1123

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-79369/1	A051512_004.d
Level 2	IC 600-79369/2	A051512_005.d
Level 3	IC 600-79369/3	A051512_006.d
Level 4	ICRT 600-79369/4	A051512_007.d
Level 5	IC 600-79369/5	A051512_008.d
Level 6	IC 600-79369/6	A051512_009.d
Level 7	IC 600-79369/7	A051512_010.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
C6-C12	21062 18326	17057 17984	18240 17127	18224	Ave		18288.5655				7.3		25.0			
C6-C35	18977 20120	18412 19645	19994 18436	20215	Ave		58199.5690				4.0		25.0			
>C12-C28	14373 19000	16422 18107	18369 17434	18661	Ave		17481.0415				9.2		25.0			
>C28-C35	21497 23034	21757 22843	23373 20747	23758	Ave		22429.9619				4.9		25.0			
o-Terphenyl	28056 29494	28326 28561	29464 27355	29529	Ave		28683.5280				2.9		30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-60819-1 Analy Batch No.: 79369

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/15/2012 17:00 Calibration End Date: 05/15/2012 20:26 Calibration ID: 1123

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-79369/1	A051512_004.d
Level 2	IC 600-79369/2	A051512_005.d
Level 3	IC 600-79369/3	A051512_006.d
Level 4	ICRT 600-79369/4	A051512_007.d
Level 5	IC 600-79369/5	A051512_008.d
Level 6	IC 600-79369/6	A051512_009.d
Level 7	IC 600-79369/7	A051512_010.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
C6-C12	Ave	210615 14387060	852838 17126866	1824023	3644876	7330559	10.0 800	50.0 1000	100	200	400
C6-C35	Ave	569311 47147583	2761793 55308424	5998245	12128761	24144346	30.0 2400	150 3000	300	600	1200
>C12-C28	Ave	143731 14485993	821096 17434487	1836904	3732232	7600037	10.0 800	50.0 1000	100	200	400
>C28-C35	Ave	214965 18274530	1087859 20747071	2337318	4751653	9213750	10.0 800	50.0 1000	100	200	400
o-Terphenyl	Ave	17535 1428042	88518 1709686	184149	369117	737348	0.625 50.0	3.13 62.5	6.25	12.5	25.0

Curve Type Legend:

Ave = Average

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_004.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 17:00
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-1
Misc Info : 004
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540	8.966		210615	10.0000	11.52
S	2 Greater than C12-C28	8.966	16.864		143731	10.0000	8.22(M)
S	3 Greater than C28-C35	16.864	20.562		214965	10.0000	9.58
$	4 O-Terphenyl	13.326	13.326	0.000	17535	0.62500	0.611(M)
S	5 Total C6-C35				569311	30.0000	29.32

QC Flag Legend

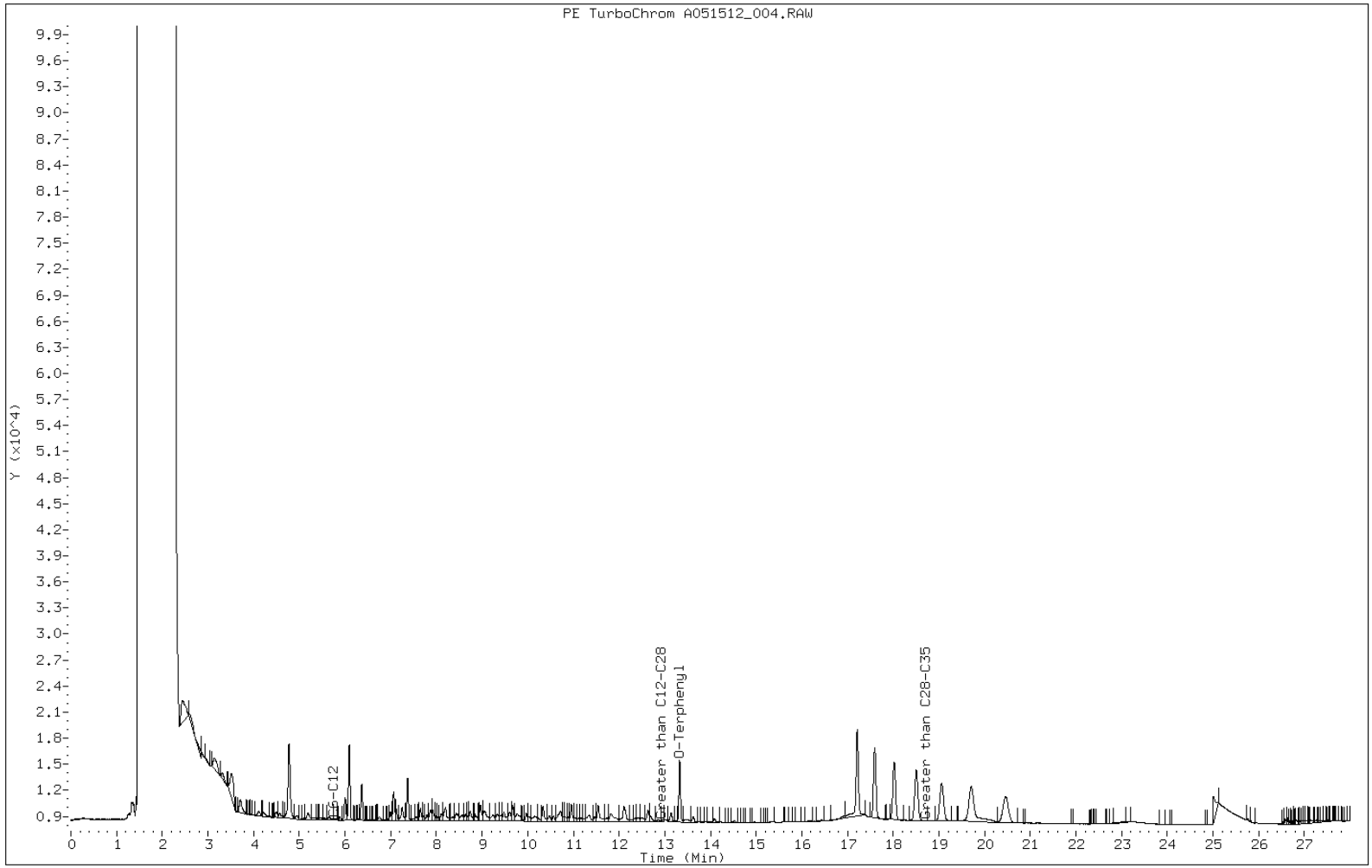
M - Compound response manually integrated.

Data File: A051512_004.d

Date: 15-MAY-2012 17:00

Client ID: Instrument: FID-07.i

Sample Info: IC-1 Operator: vanderborghr



Manual Integration Report

Data File: A051512_004.d
Inj. Date and Time: 15-MAY-2012 17:00
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

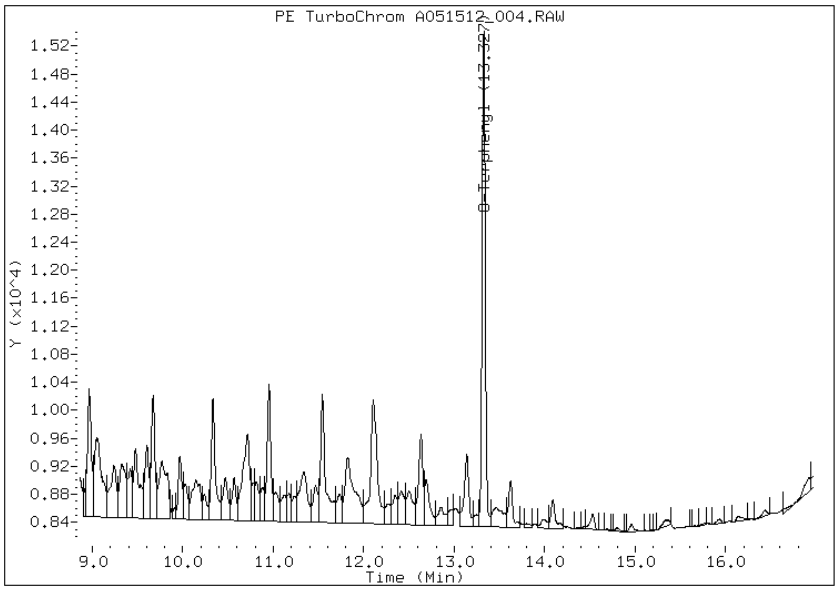
Processing Integration Results

RT: 12.91

Response: 143731

Amount: 8.22

Conc: 8.22



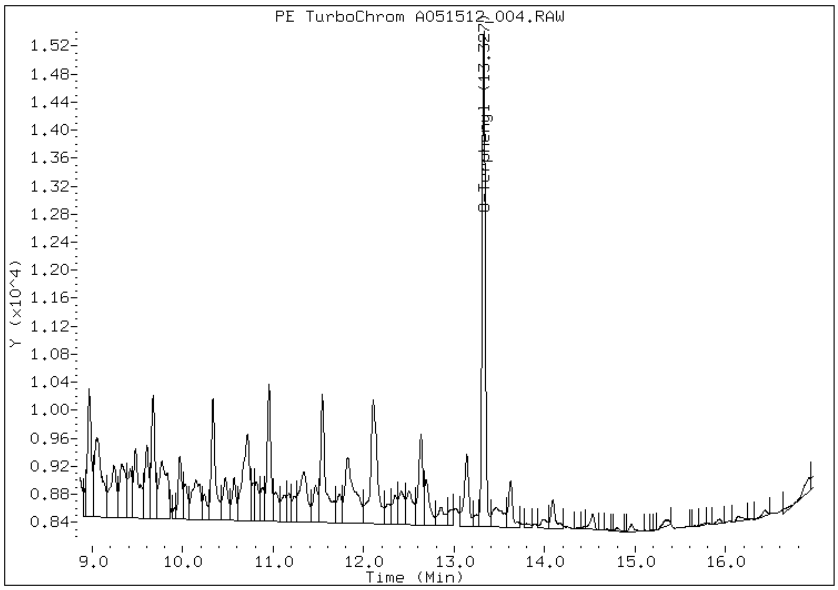
Manual Integration Results

RT: 12.92

Response: 143731

Amount: 8.22

Conc: 8.22



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_004.d
Inj. Date and Time: 15-MAY-2012 17:00
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

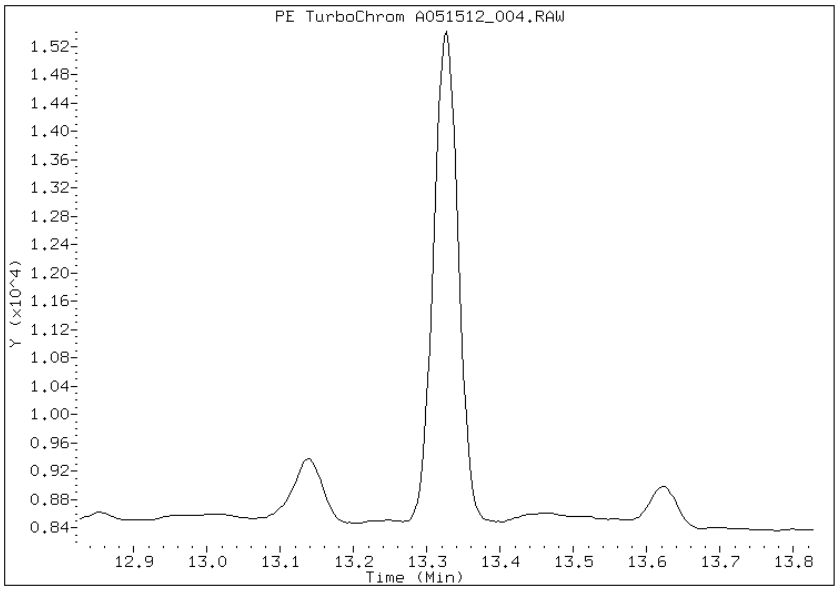
Processing Integration Results

RT: 12.85

Response: 1455

Amount: 0.05

Conc: 0.05



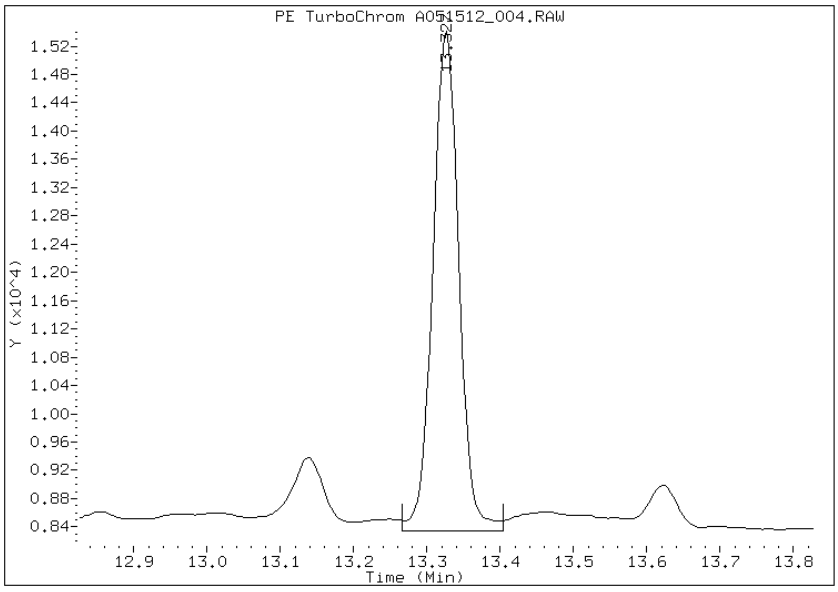
Manual Integration Results

RT: 13.33

Response: 17535

Amount: 0.61

Conc: 0.61



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_005.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 17:34
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-2
Misc Info : 005
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(ug/mL)
S 1 C6-C12	2.540-8.966			852838		50.0000	46.63
S 2 Greater than C12-C28	8.966-16.864			821096		50.0000	46.97(M)
S 3 Greater than C28-C35	16.864-20.562			1087859		50.0000	48.50
$ 4 O-Terphenyl	13.326	13.326	0.000	88518		3.12500	3.09(M)
S 5 Total C6-C35				2761793		150.000	142.1

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_005.d

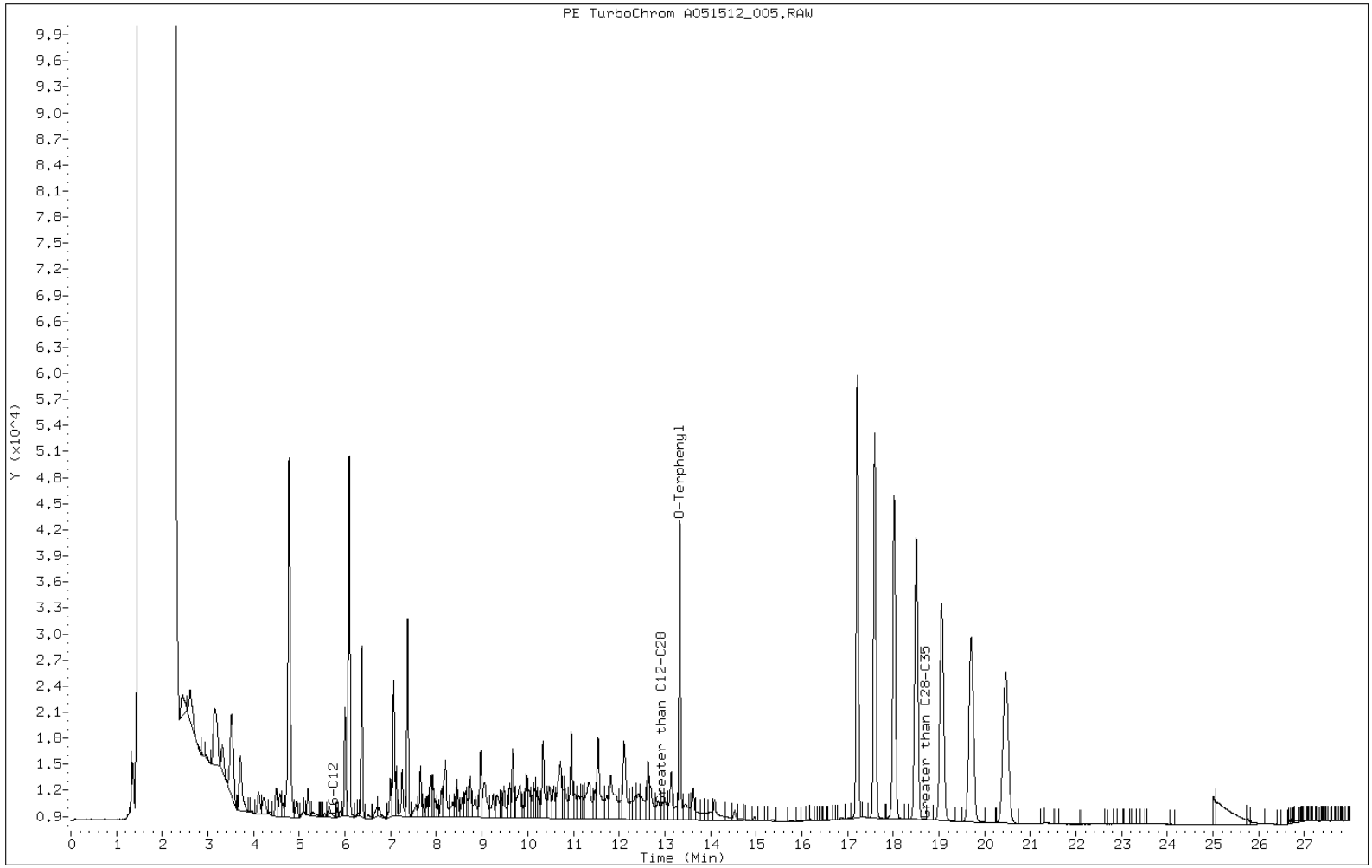
Date: 15-MAY-2012 17:34

Client ID:

Instrument: FID-07.i

Sample Info: IC-2

Operator: vanderborghr



Manual Integration Report

Data File: A051512_005.d
Inj. Date and Time: 15-MAY-2012 17:34
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

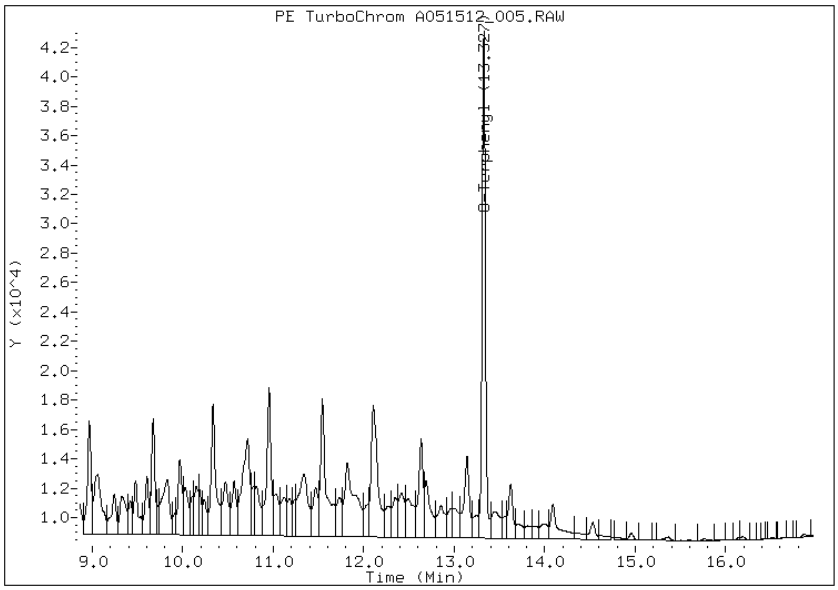
Processing Integration Results

RT: 12.91

Response: 821096

Amount: 46.97

Conc: 46.97



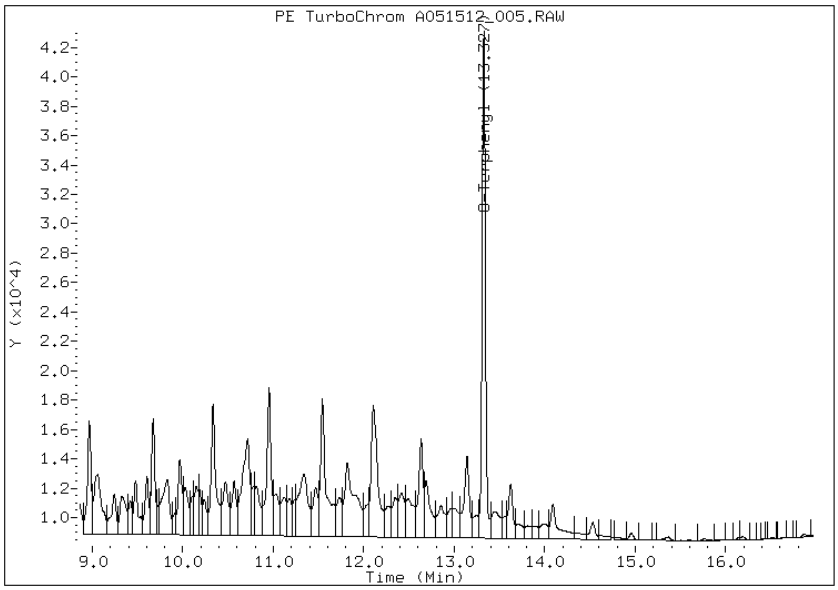
Manual Integration Results

RT: 12.92

Response: 821096

Amount: 46.97

Conc: 46.97



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_005.d
Inj. Date and Time: 15-MAY-2012 17:34
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

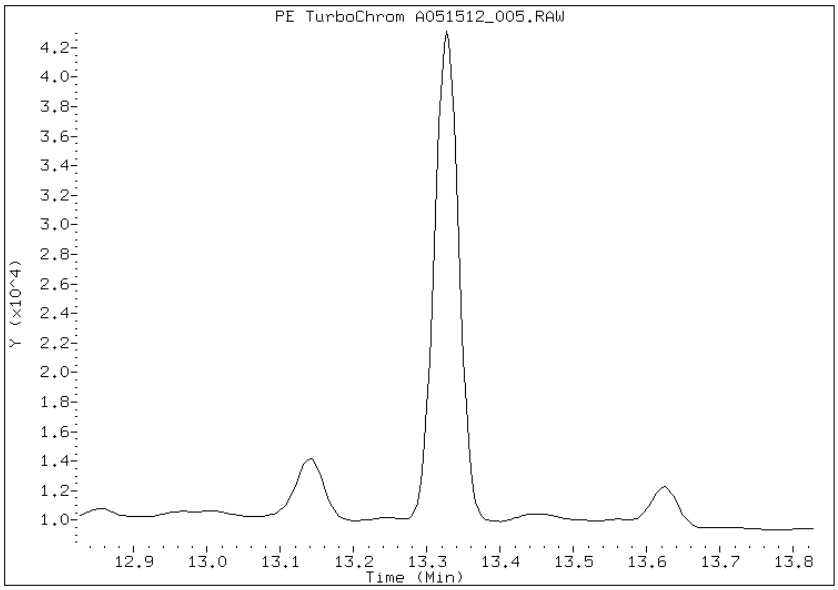
Processing Integration Results

RT: 12.85

Response: 13551

Amount: 0.47

Conc: 0.47



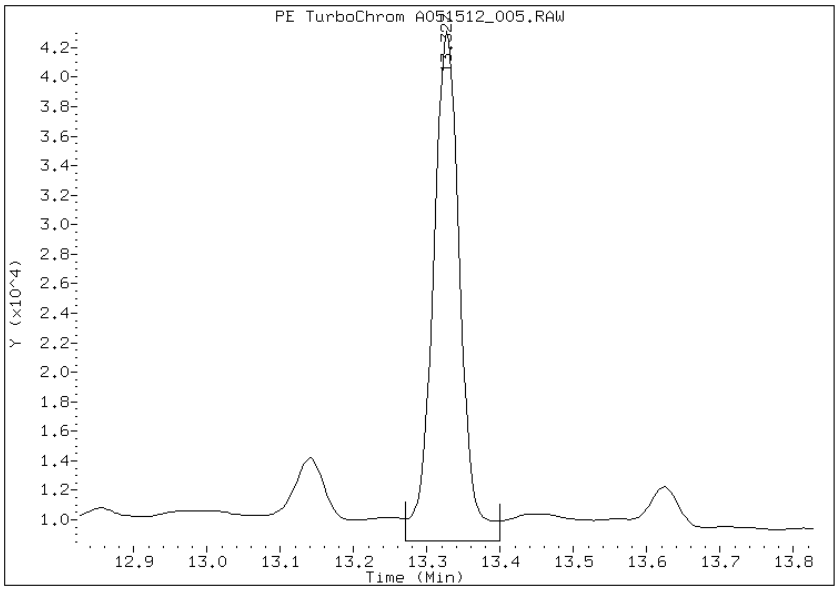
Manual Integration Results

RT: 13.33

Response: 88518

Amount: 3.09

Conc: 3.09



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_006.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 18:09
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-3
Misc Info : 006
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			1824023	100.000	99.74
S	2 Greater than C12-C28	8.966-16.864			1836904	100.000	105.1(M)
S	3 Greater than C28-C35	16.864-20.562			2337318	100.000	104.2
$	4 O-Terphenyl	13.326	13.326	0.000	184149	6.25000	6.42(M)
S	5 Total C6-C35				5998245	300.000	309.0

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_006.d

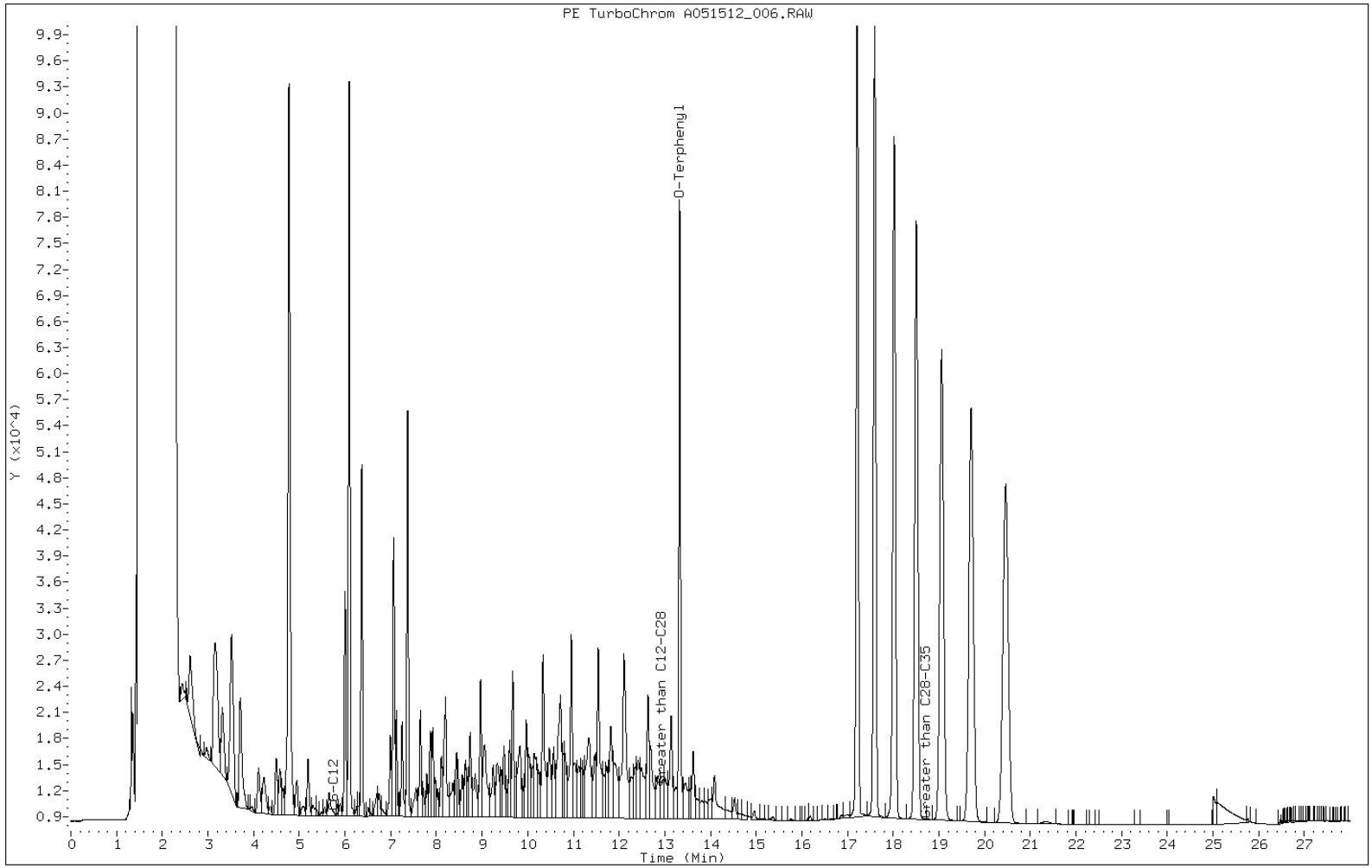
Date: 15-MAY-2012 18:09

Client ID:

Instrument: FID-07.i

Sample Info: IC-3

Operator: vanderborghr



Manual Integration Report

Data File: A051512_006.d
Inj. Date and Time: 15-MAY-2012 18:09
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

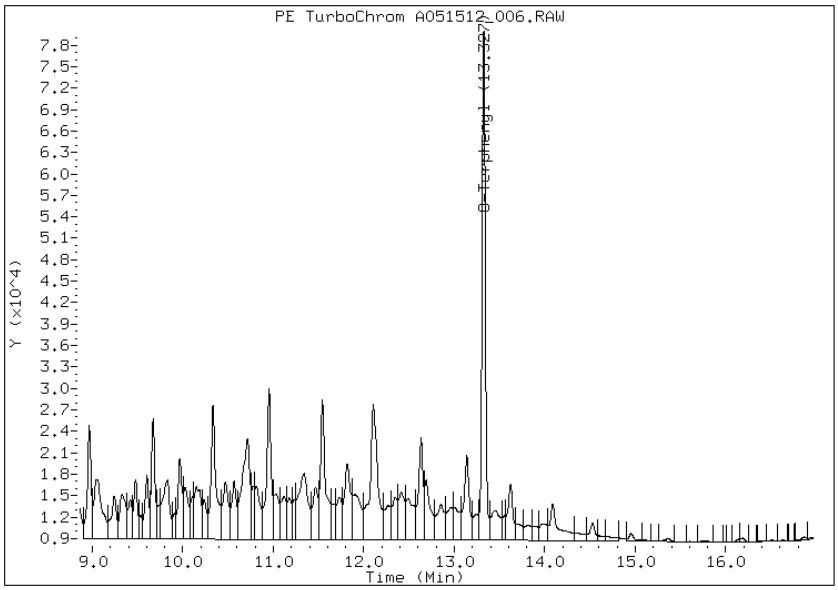
Processing Integration Results

RT: 12.91

Response: 1836904

Amount: 105.08

Conc: 105.08



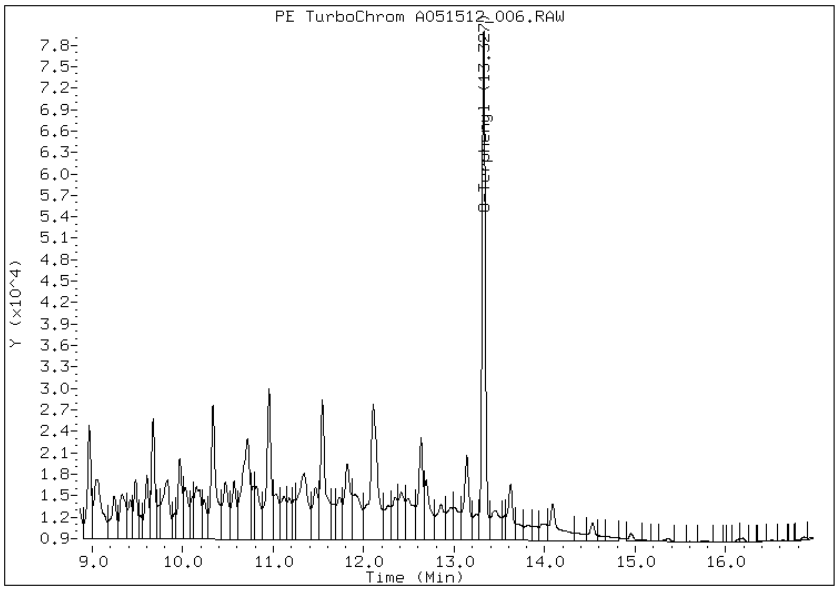
Manual Integration Results

RT: 12.92

Response: 1836904

Amount: 105.08

Conc: 105.08



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_006.d
Inj. Date and Time: 15-MAY-2012 18:09
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

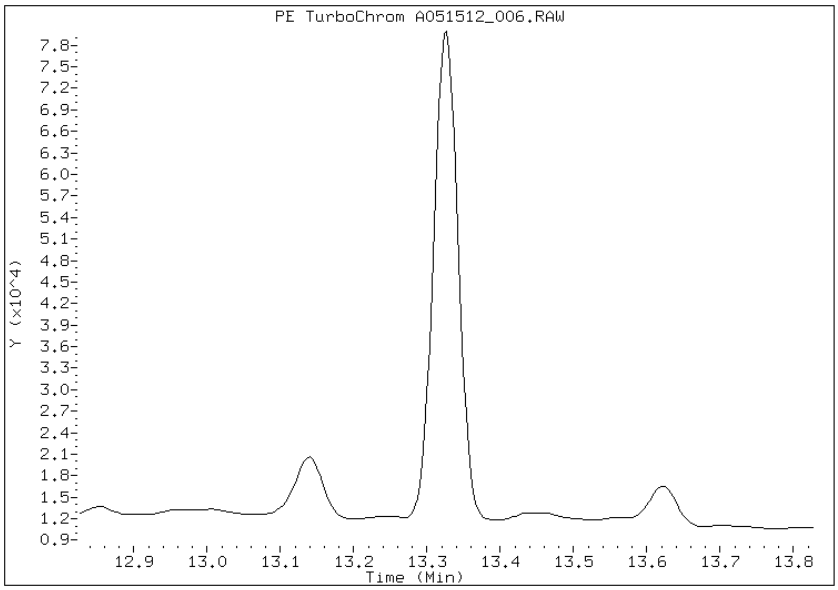
Processing Integration Results

RT: 12.85

Response: 27575

Amount: 0.96

Conc: 0.96



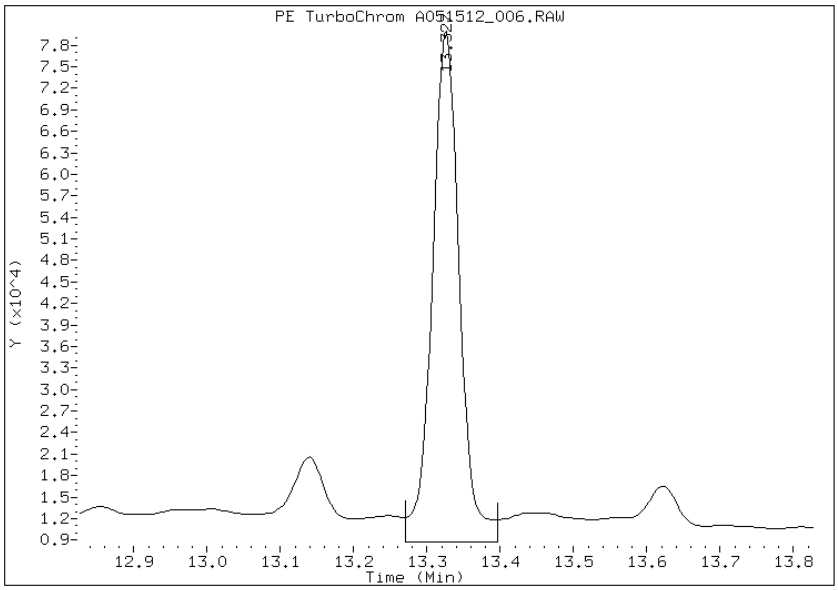
Manual Integration Results

RT: 13.33

Response: 184149

Amount: 6.42

Conc: 6.42



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_007.d
Lab Smp Id: ICRT
Inj Date : 15-MAY-2012 18:43
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : ICRT
Misc Info : 007
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			3644876	200.000	199.3
S	2 Greater than C12-C28	8.966-16.864			3732232	200.000	213.5(M)
S	3 Greater than C28-C35	16.864-20.562			4751653	200.000	211.8
$	4 O-Terphenyl	13.326	13.326	0.000	369117	12.5000	12.87(M)
S	5 Total C6-C35				12128761	600.000	624.6

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_007.d

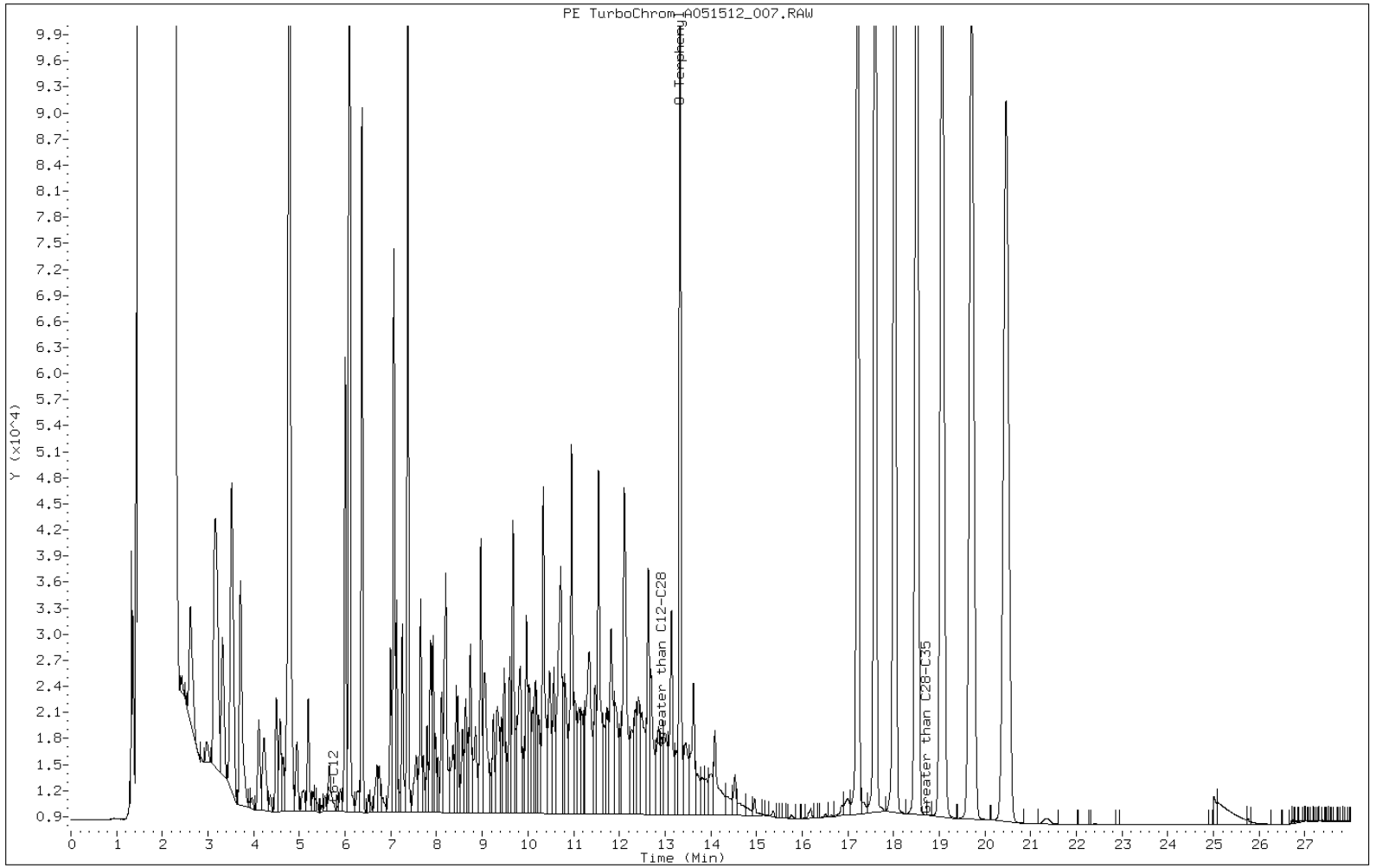
Date: 15-MAY-2012 18:43

Client ID:

Instrument: FID-07.i

Sample Info: ICRT

Operator: vanderborghr



Manual Integration Report

Data File: A051512_007.d
Inj. Date and Time: 15-MAY-2012 18:43
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

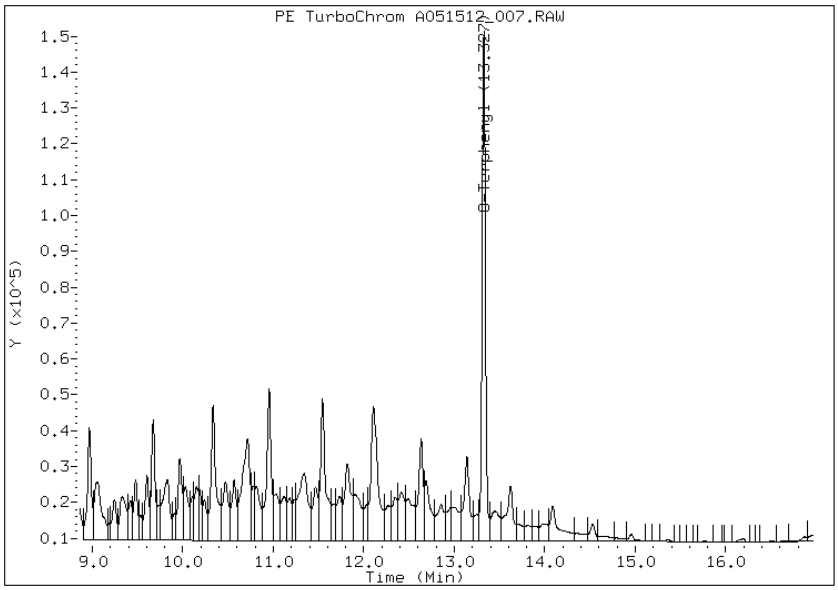
Processing Integration Results

RT: 12.91

Response: 3732232

Amount: 213.50

Conc: 213.50



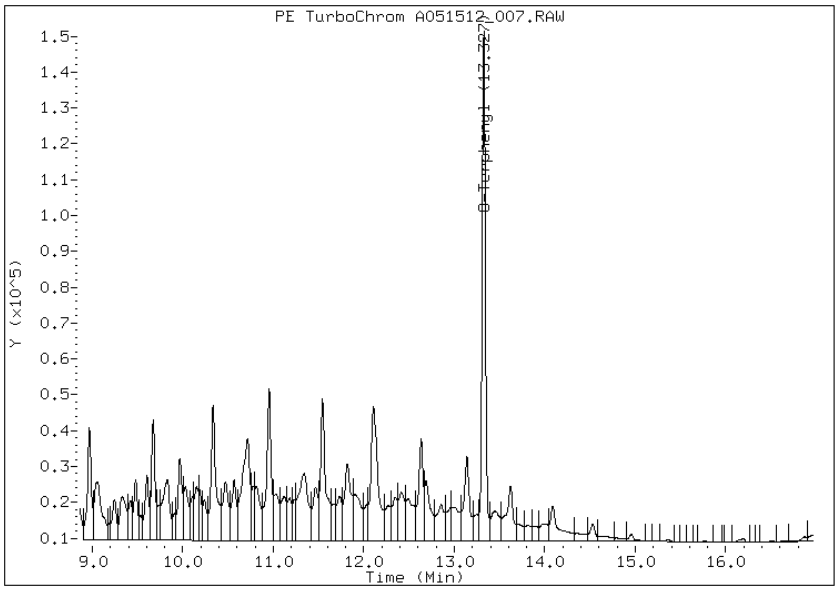
Manual Integration Results

RT: 12.92

Response: 3732232

Amount: 213.50

Conc: 213.50



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_007.d
Inj. Date and Time: 15-MAY-2012 18:43
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

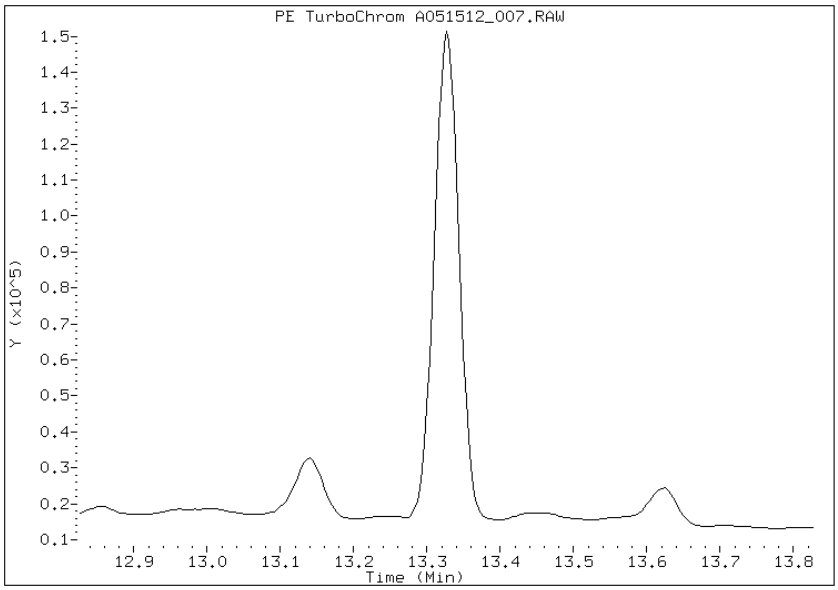
Processing Integration Results

RT: 12.85

Response: 59917

Amount: 2.08

Conc: 2.08



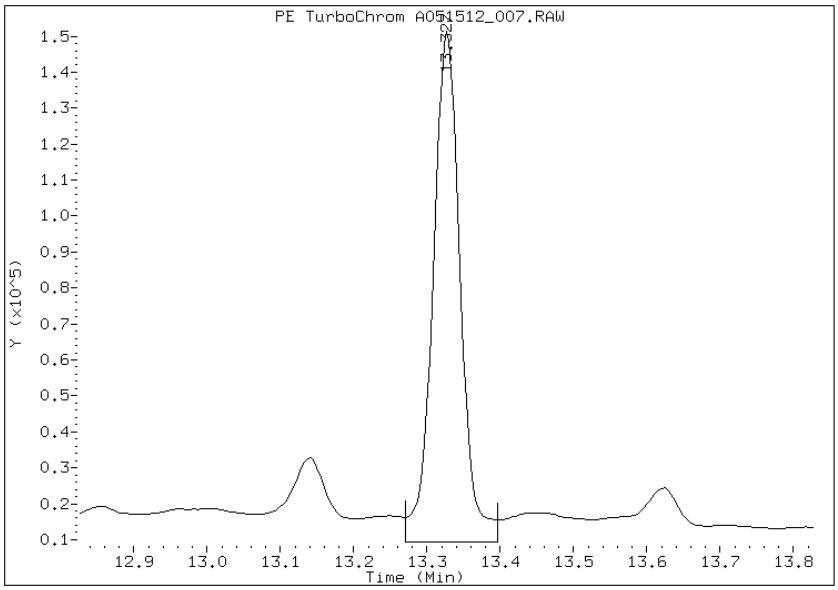
Manual Integration Results

RT: 13.33

Response: 369117

Amount: 12.87

Conc: 12.87



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_008.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 19:18
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-5
Misc Info : 008
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			7330559	400.000	400.8
S	2 Greater than C12-C28	8.966-16.864			7600037	400.000	434.8(M)
S	3 Greater than C28-C35	16.864-20.562			9213750	400.000	410.8
$	4 O-Terphenyl	13.326	13.326	0.000	737348	25.0000	25.71(M)
S	5 Total C6-C35				24144346	1200.00	1246

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_008.d

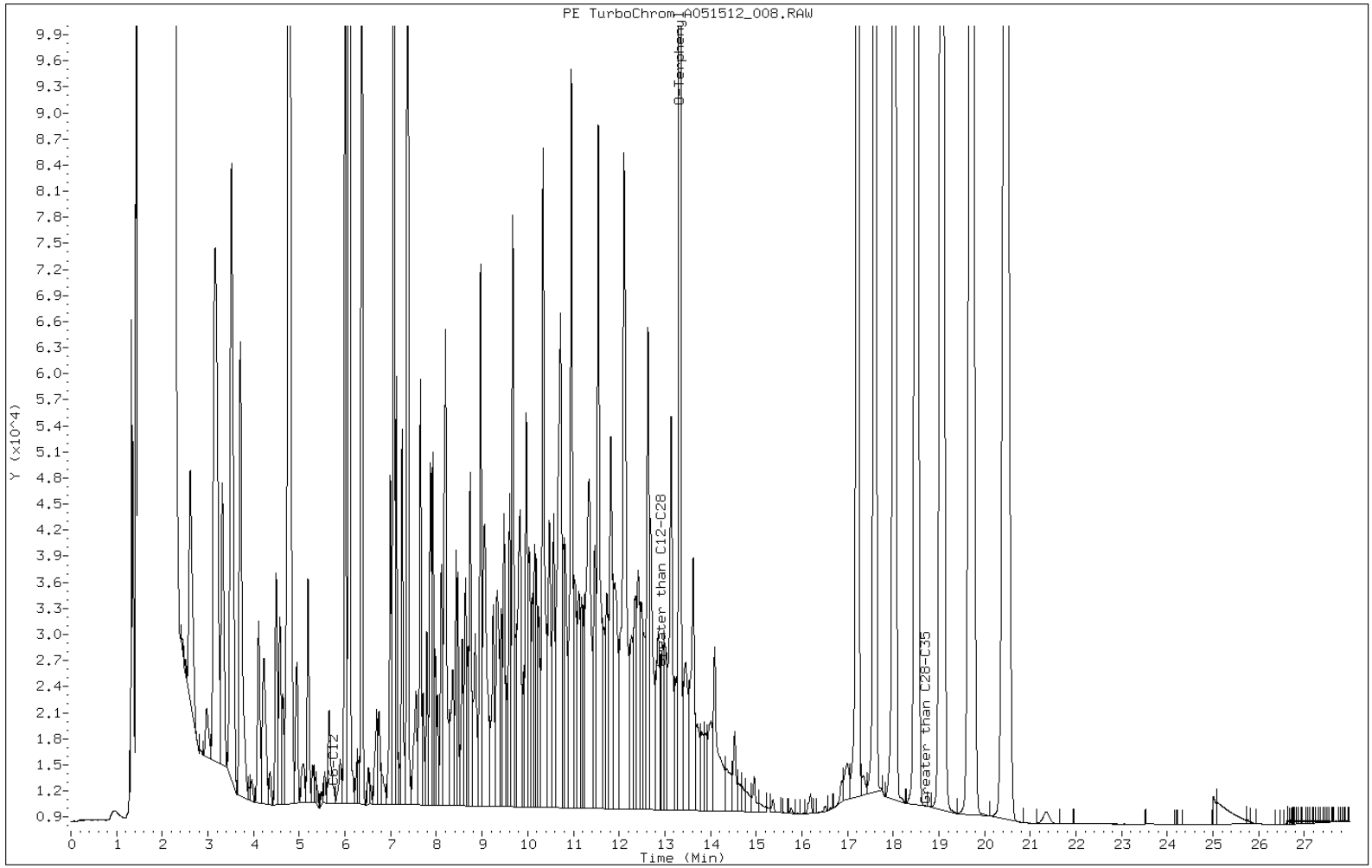
Date: 15-MAY-2012 19:18

Client ID:

Instrument: FID-07.i

Sample Info: IC-5

Operator: vanderborghr



Manual Integration Report

Data File: A051512_008.d
Inj. Date and Time: 15-MAY-2012 19:18
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

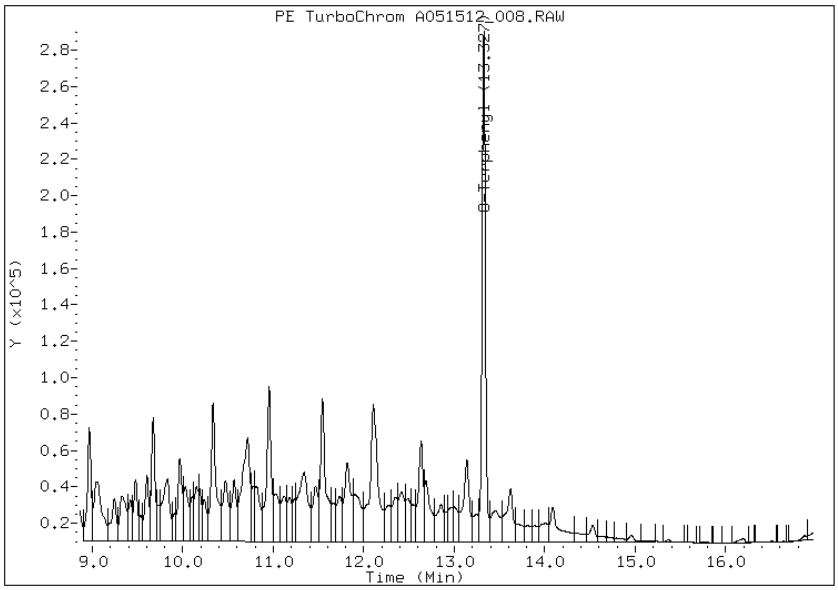
Processing Integration Results

RT: 12.91

Response: 7600037

Amount: 434.76

Conc: 434.76



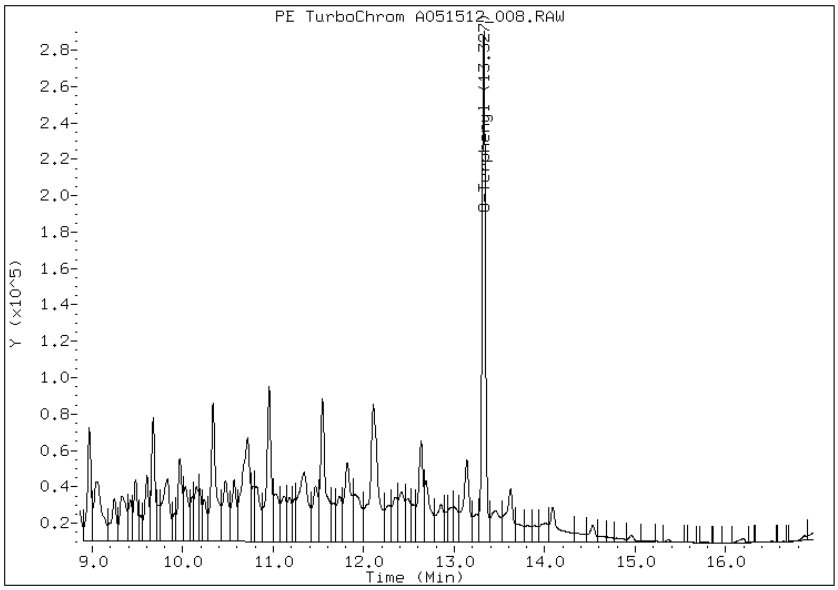
Manual Integration Results

RT: 12.92

Response: 7600037

Amount: 434.76

Conc: 434.76



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_008.d
Inj. Date and Time: 15-MAY-2012 19:18
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

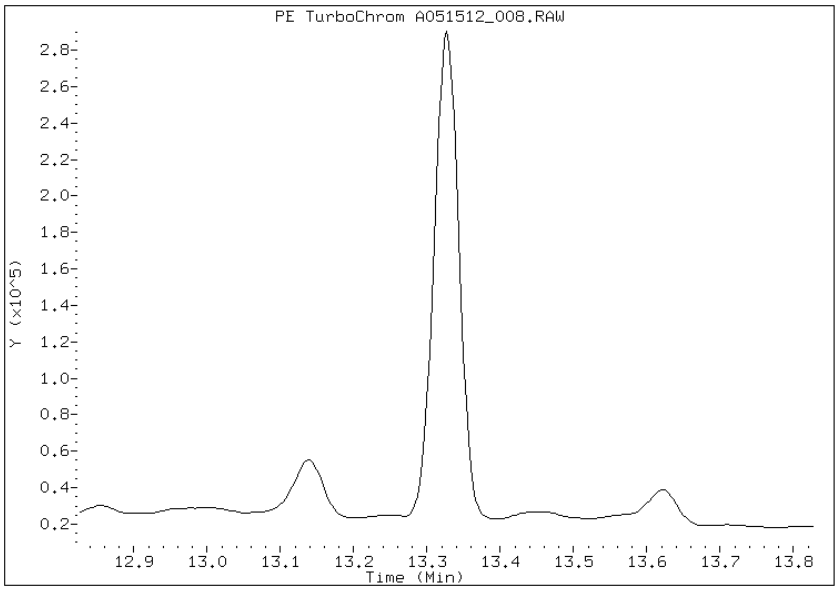
Processing Integration Results

RT: 12.85

Response: 113477

Amount: 3.94

Conc: 3.94



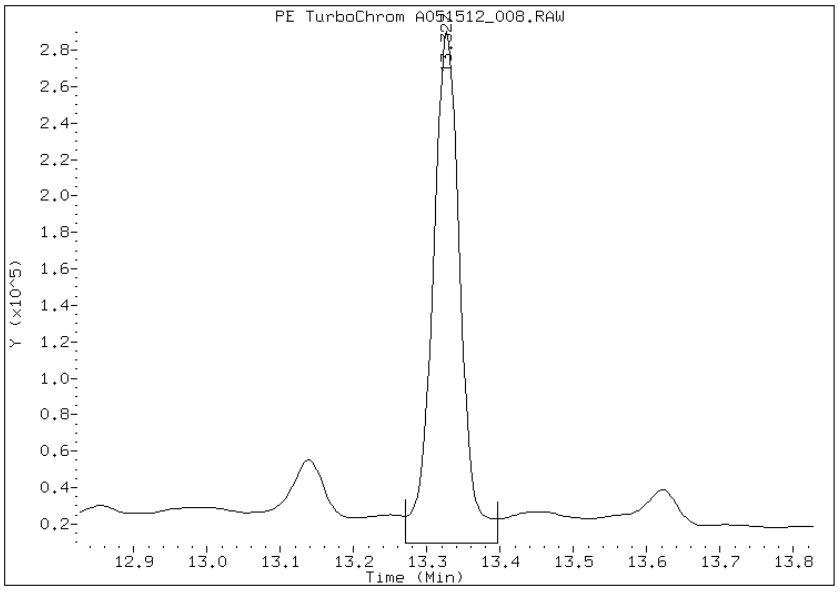
Manual Integration Results

RT: 13.33

Response: 737348

Amount: 25.71

Conc: 25.71



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_009.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 19:52
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-6
Misc Info : 009
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			14387060	800.000	786.7
S	2 Greater than C12-C28	8.966-16.864			14485993	800.000	828.7(M)
S	3 Greater than C28-C35	16.864-20.562			18274530	800.000	814.7
$	4 O-Terphenyl	13.326	13.326	0.000	1428042	50.0000	49.79(M)
S	5 Total C6-C35				47147583	2400.00	2430

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_009.d

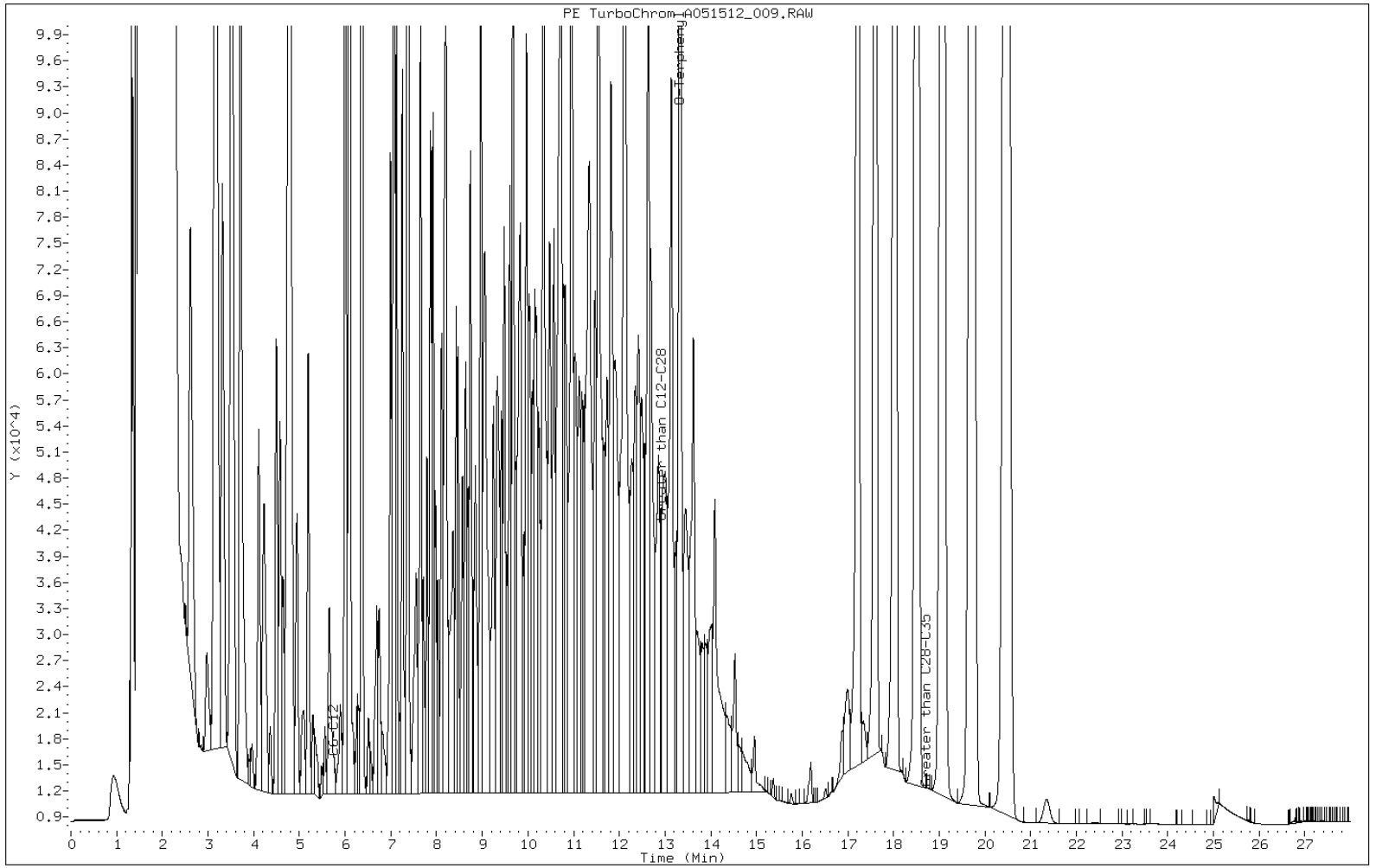
Date: 15-MAY-2012 19:52

Client ID:

Instrument: FID-07.i

Sample Info: IC-6

Operator: vanderborghr



Manual Integration Report

Data File: A051512_009.d
Inj. Date and Time: 15-MAY-2012 19:52
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

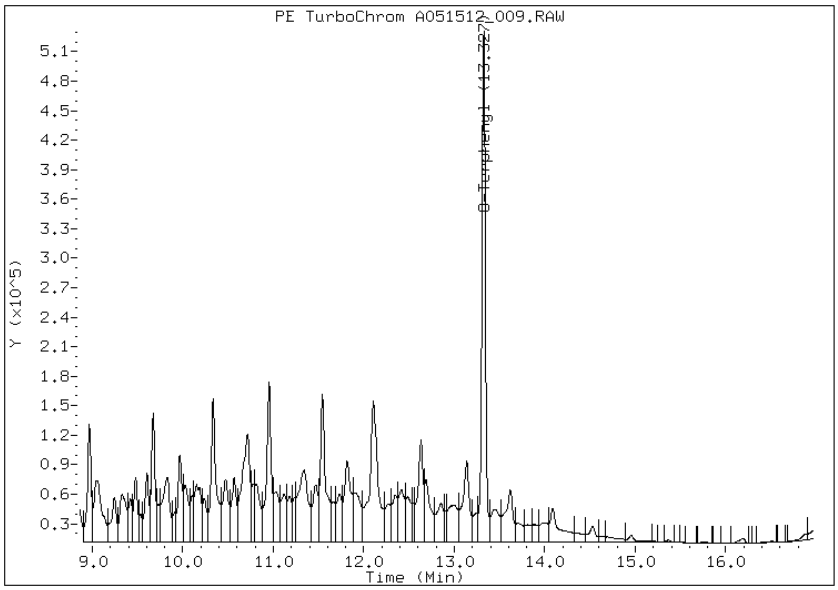
Processing Integration Results

RT: 12.91

Response: 14485993

Amount: 828.67

Conc: 828.67



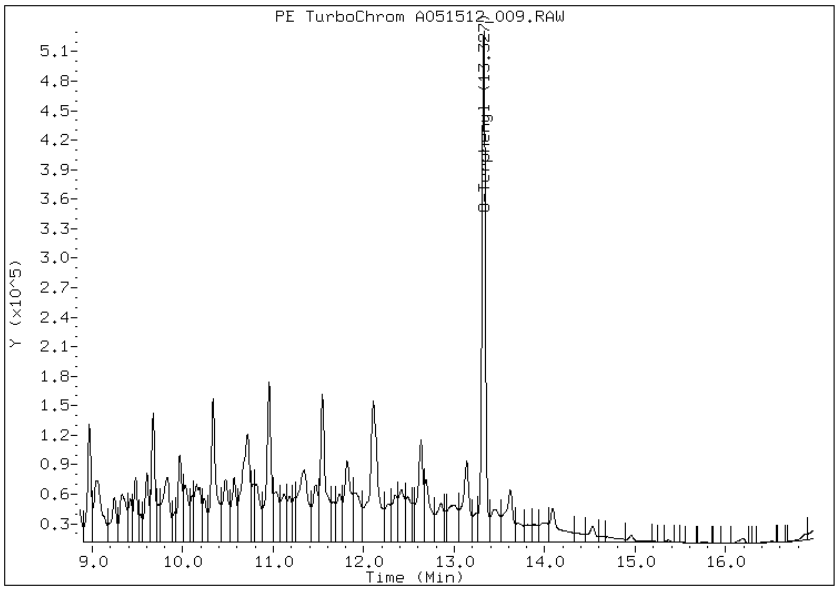
Manual Integration Results

RT: 12.92

Response: 14485993

Amount: 828.67

Conc: 828.67



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_009.d
Inj. Date and Time: 15-MAY-2012 19:52
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

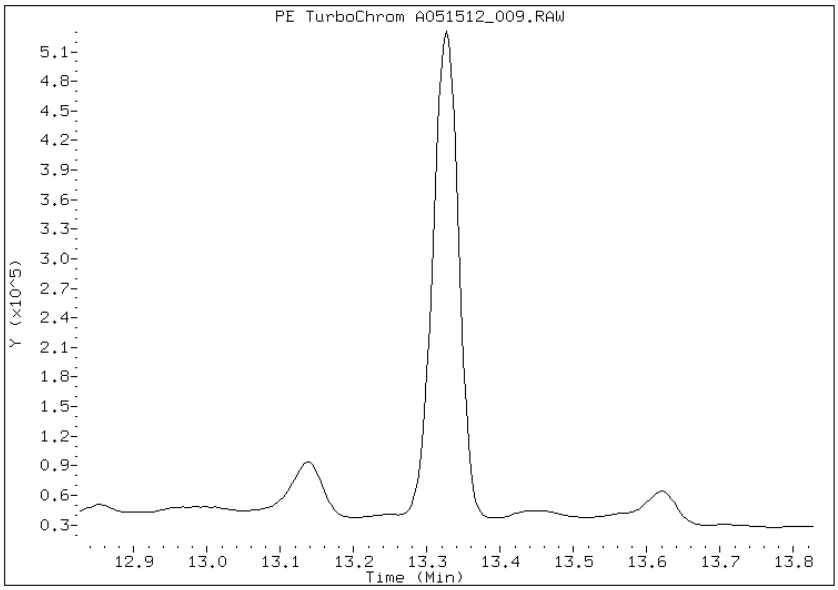
Processing Integration Results

RT: 12.85

Response: 215807

Amount: 7.49

Conc: 7.49



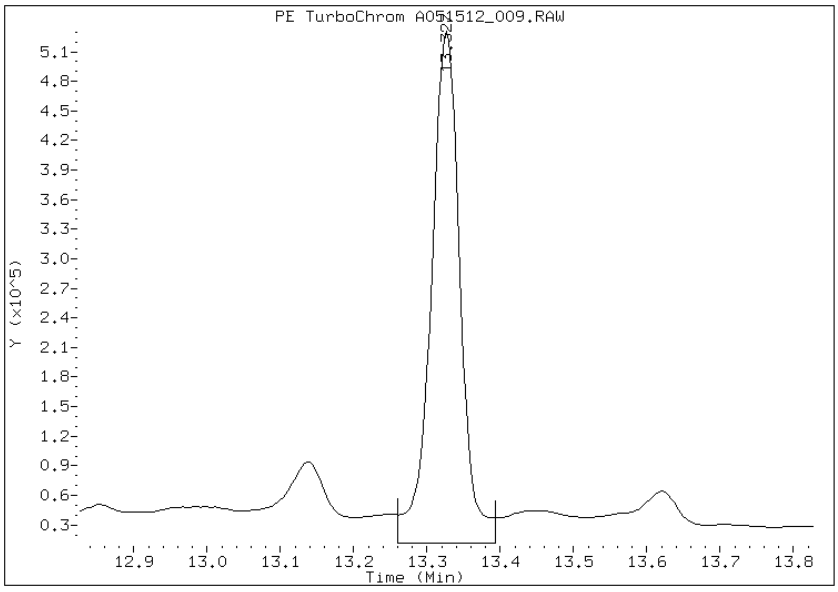
Manual Integration Results

RT: 13.33

Response: 1428042

Amount: 49.79

Conc: 49.79



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\051512A.b\A051512_010.d
Lab Smp Id: IC
Inj Date : 15-MAY-2012 20:26
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : IC-7
Misc Info : 010
Comment :
Method : \\housvr4\chem\FID-07.i\051512A.b\1005A.m
Meth Date : 27-Sep-2012 11:49 cupton Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			17126866	1000.00	936.5
S	2 Greater than C12-C28	8.966-16.864			17434487	1000.00	997.3(M)
S	3 Greater than C28-C35	16.864-20.562			20747071	1000.00	925.0
$	4 O-Terphenyl	13.326	13.326	0.000	1709686	62.5000	59.61(M)
S	5 Total C6-C35				55308424	3000.00	2859

QC Flag Legend

M - Compound response manually integrated.

Data File: A051512_010.d

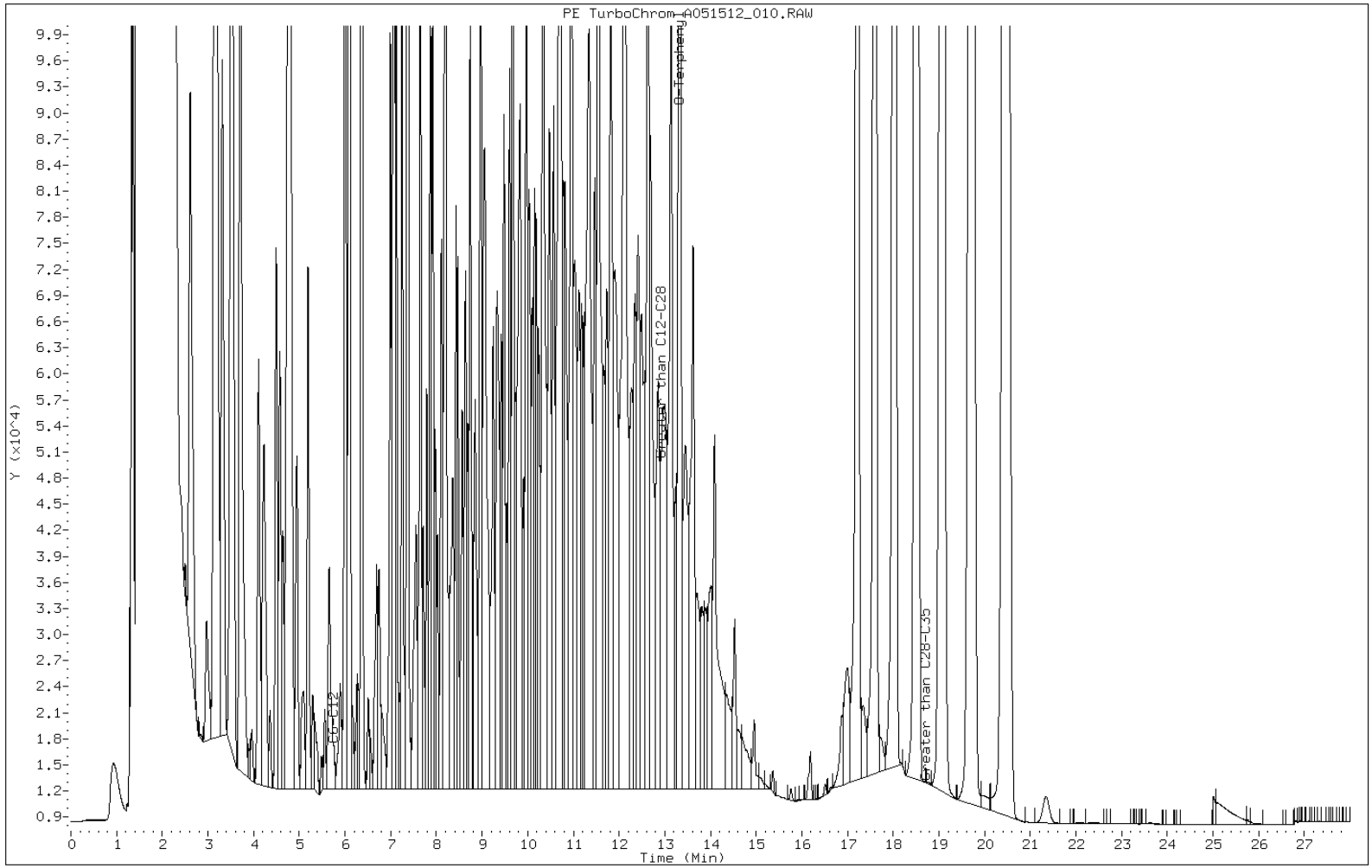
Date: 15-MAY-2012 20:26

Client ID:

Instrument: FID-07.i

Sample Info: IC-7

Operator: vanderborghr



Manual Integration Report

Data File: A051512_010.d
Inj. Date and Time: 15-MAY-2012 20:26
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

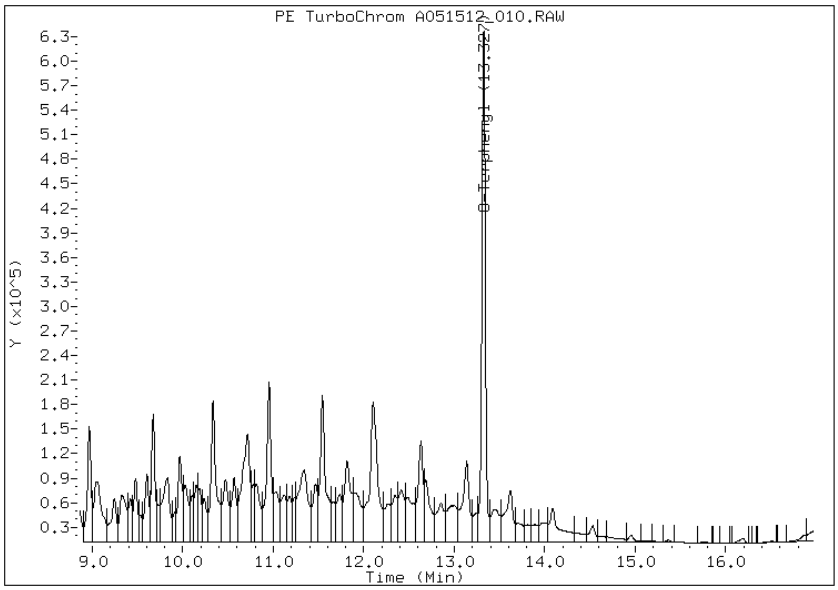
Processing Integration Results

RT: 12.91

Response: 17434487

Amount: 997.34

Conc: 997.34



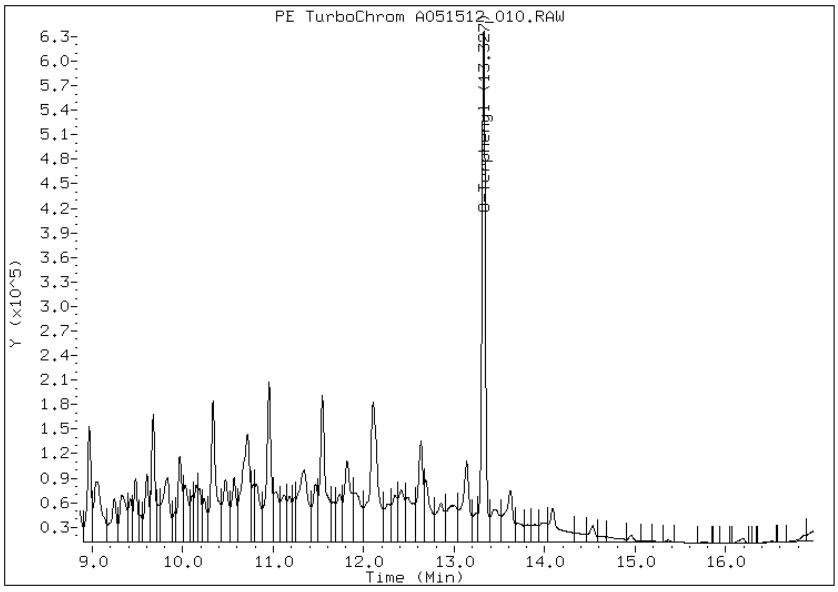
Manual Integration Results

RT: 12.92

Response: 17434487

Amount: 997.34

Conc: 997.34



Manually Integrated By:
Modification Date:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: A051512_010.d
Inj. Date and Time: 15-MAY-2012 20:26
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

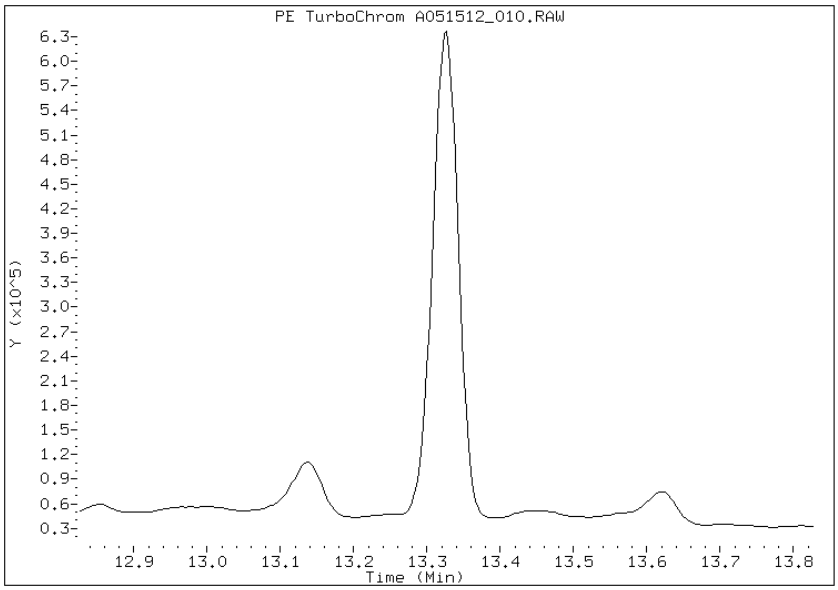
Processing Integration Results

RT: 12.85

Response: 277370

Amount: 9.62

Conc: 9.62



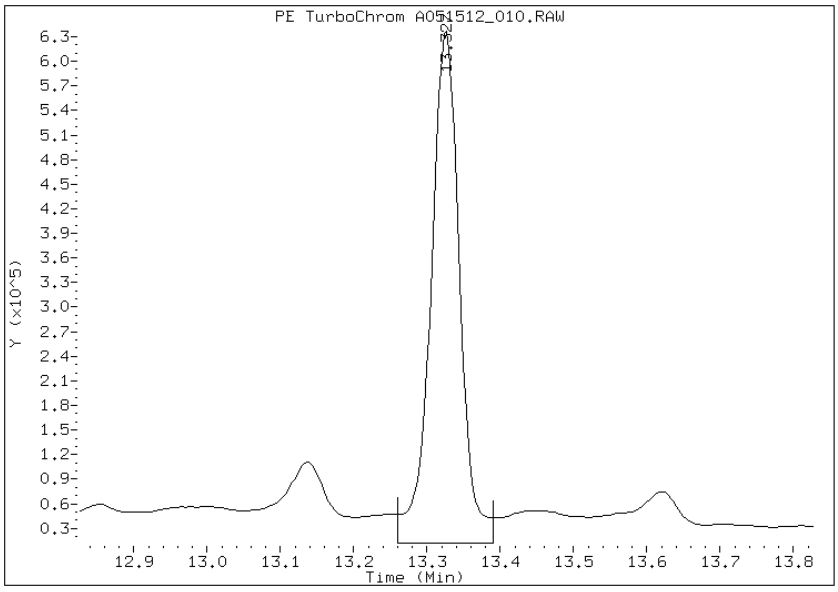
Manual Integration Results

RT: 13.33

Response: 1709686

Amount: 59.61

Conc: 59.61



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCVRT 600-88431/1 Calibration Date: 09/11/2012 09:08

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_002.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	18289	16703		183	200	-8.7	25.0
>C12-C28	Ave	17481	16803		192	200	-3.9	25.0
>C28-C35	Ave	22430	17234		154	200	-23.2	25.0
o-Terphenyl	Ave	28684	26579		11.6	12.5	-7.3	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCVRT 600-88431/1 Calibration Date: 09/11/2012 09:08

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_002.d

Analyte	RT	RT WINDOW	
		TO	FROM
C6-C12	5.75	2.54	8.97
C6-C35	11.55	2.54	20.56
>C12-C28	12.92	8.97	16.86
>C28-C35	18.71	16.86	20.56
o-Terphenyl	13.32	13.23	13.43

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_002.d
Lab Smp Id: CCVRT
Inj Date : 11-SEP-2012 09:08
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : CCVRT
Misc Info : 002
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 27-Sep-2012 11:52 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			3340670	200.000	182.7
S	2 Greater than C12-C28	8.966-16.864			3360532	200.000	192.2(M)
S	3 Greater than C28-C35	16.864-20.562			3445387	200.000	153.6(M)
$	4 O-Terphenyl	13.316	13.326	-0.010	332241	12.5000	11.58(M)
S	5 Total C6-C35				10146589	600.000	528.5

QC Flag Legend

M - Compound response manually integrated.

Data File: A091112_002.d

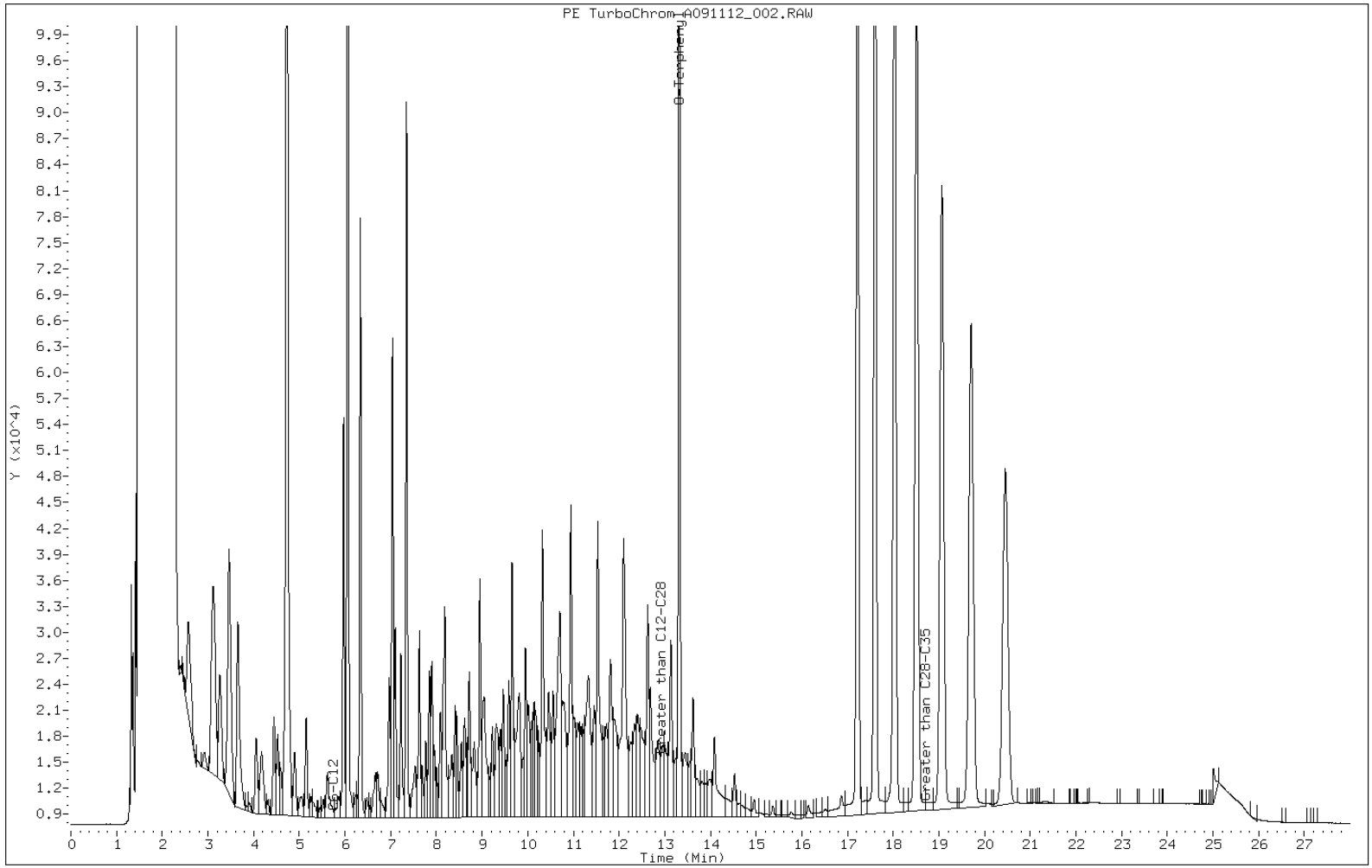
Date: 11-SEP-2012 09:08

Client ID:

Instrument: FID-07.i

Sample Info: CCVRT

Operator: vanderborghr



Manual Integration Report

Data File: A091112_002.d
Inj. Date and Time: 11-SEP-2012 09:08
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

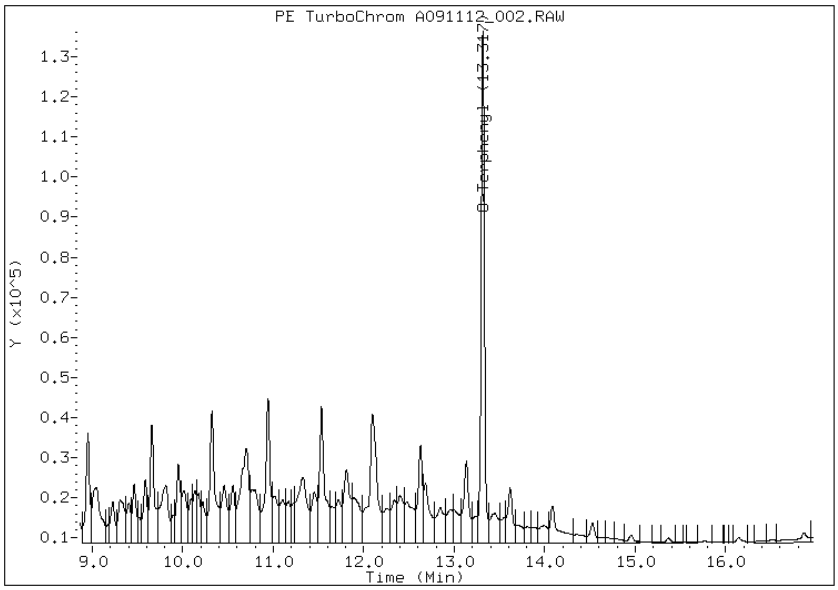
Processing Integration Results

RT: 12.91

Response: 3149512

Amount: 180.17

Conc: 18.02



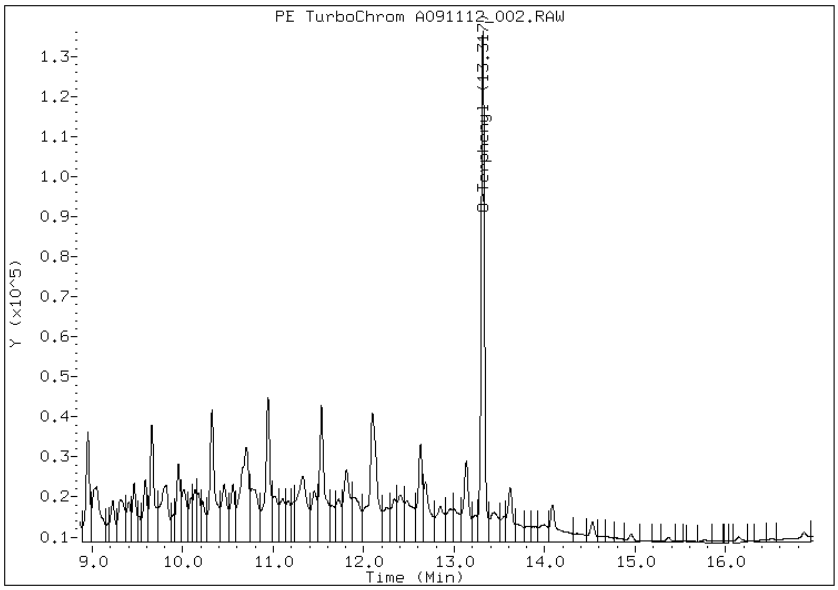
Manual Integration Results

RT: 12.92

Response: 3360532

Amount: 192.24

Conc: 192.24



Manually Integrated By: vanderborghr
Modification Date: 11-Sep-2012 10:56
Manual Integration Reason:

Manual Integration Report

Data File: A091112_002.d
Inj. Date and Time: 11-SEP-2012 09:08
Instrument ID: FID-07.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 09/27/2012

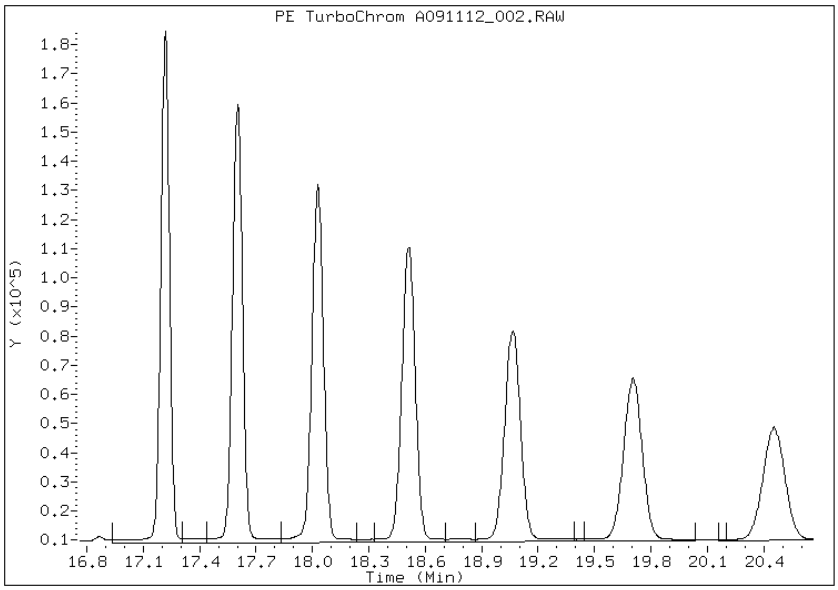
Processing Integration Results

RT: 18.71

Response: 3354260

Amount: 149.54

Conc: 14.95



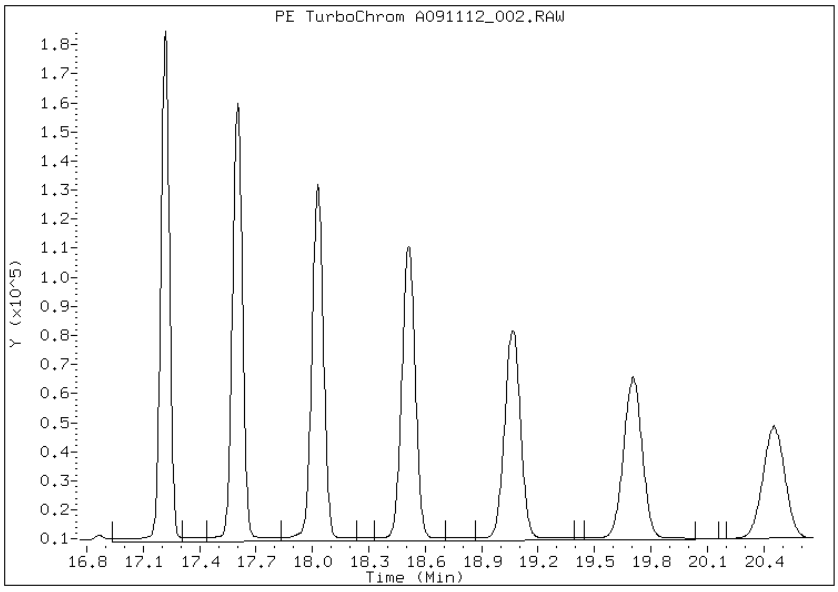
Manual Integration Results

RT: 18.71

Response: 3445387

Amount: 153.61

Conc: 153.61



Manually Integrated By: vanderborghr
Modification Date: 11-Sep-2012 10:56
Manual Integration Reason: Peak Integrated Incorrectly

Manual Integration Report

Data File: A091112_002.d
Inj. Date and Time: 11-SEP-2012 09:08
Instrument ID: FID-07.i
Client ID:
Compound: 4 O-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

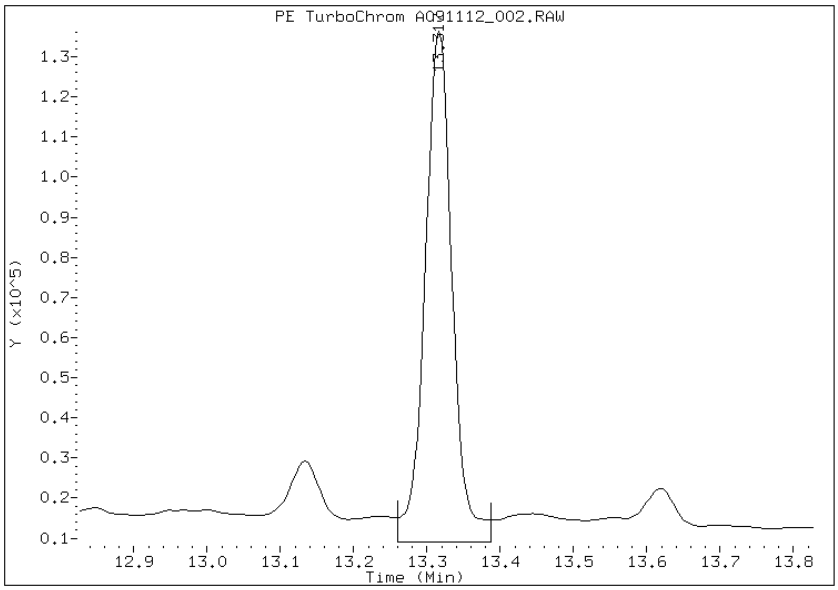
Processing Integration Results

RT: 13.32

Response: 329046

Amount: 11.47

Conc: 1.15



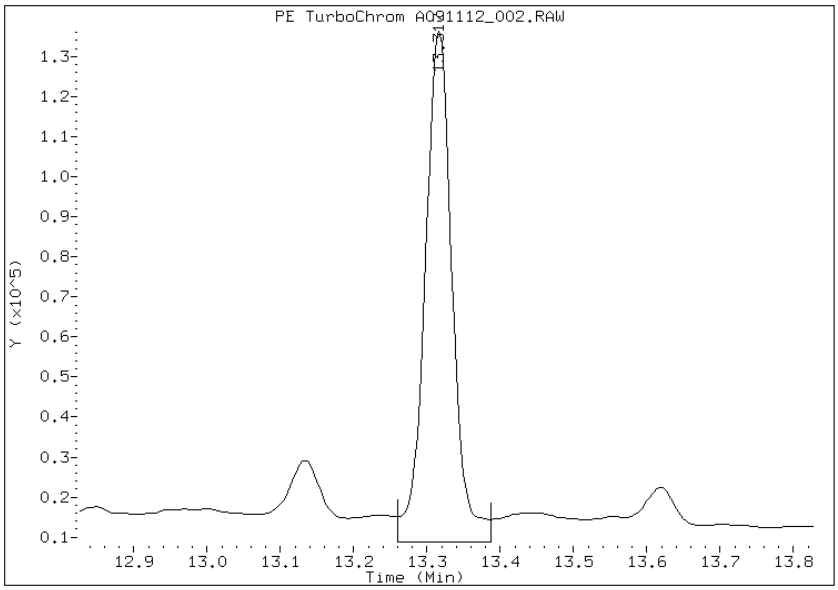
Manual Integration Results

RT: 13.32

Response: 332241

Amount: 11.58

Conc: 11.58



Manually Integrated By: vanderborghr
Modification Date: 11-Sep-2012 10:56
Manual Integration Reason:

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCV 600-88431/12 Calibration Date: 09/11/2012 18:36

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_013.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	18289	18071		198	200	-1.2	25.0
>C12-C28	Ave	17481	18186		208	200	4.0	25.0
>C28-C35	Ave	22430	17833		159	200	-20.5	25.0
o-Terphenyl	Ave	28684	30184		13.2	12.5	5.2	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCV 600-88431/12 Calibration Date: 09/11/2012 18:36

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_013.d

Analyte	RT	RT WINDOW	
		TO	FROM
C6-C12	5.75	2.54	8.97
C6-C35	11.55	2.54	20.56
>C12-C28	12.92	8.97	16.86
>C28-C35	18.71	16.86	20.56
o-Terphenyl	13.32	13.23	13.43

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_013.d
Lab Smp Id: CCV
Inj Date : 11-SEP-2012 18:36
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : CCV
Misc Info : 013
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 27-Sep-2012 11:53 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			3614247	200.000	197.6
S	2 Greater than C12-C28	8.966-16.864			3637288	200.000	208.1
S	3 Greater than C28-C35	16.864-20.562			3565164	200.000	158.9(MH)
$	4 O-Terphenyl	13.320	13.326	-0.006	377305	12.5000	13.15
S	5 Total C6-C35				10816699	600.000	564.6

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: A091112_013.d

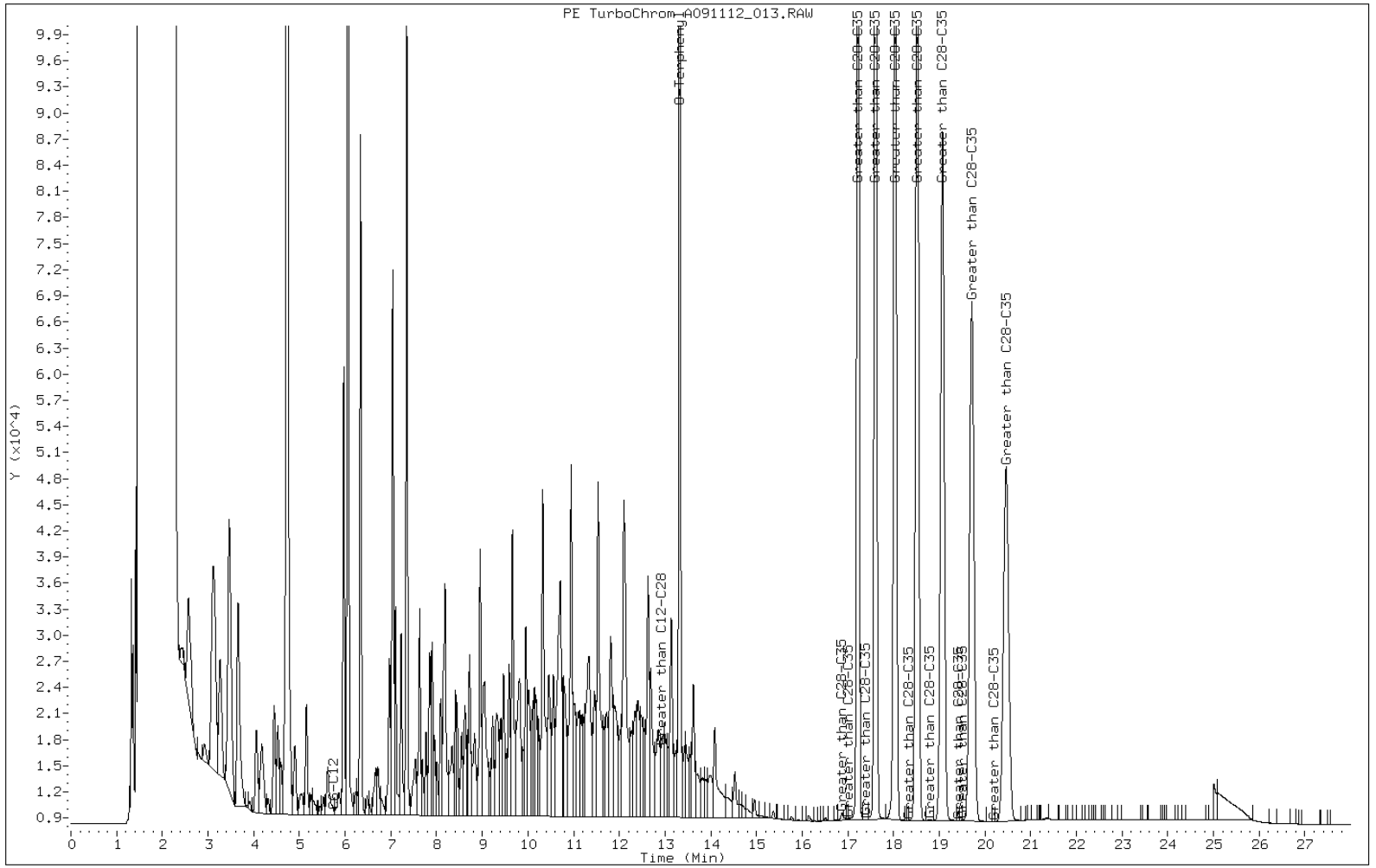
Date: 11-SEP-2012 18:36

Client ID:

Instrument: FID-07.i

Sample Info: CCV

Operator: vanderborghr



Manual Integration Report

Data File: A091112_013.d
Inj. Date and Time: 11-SEP-2012 18:36
Instrument ID: FID-07.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 09/27/2012

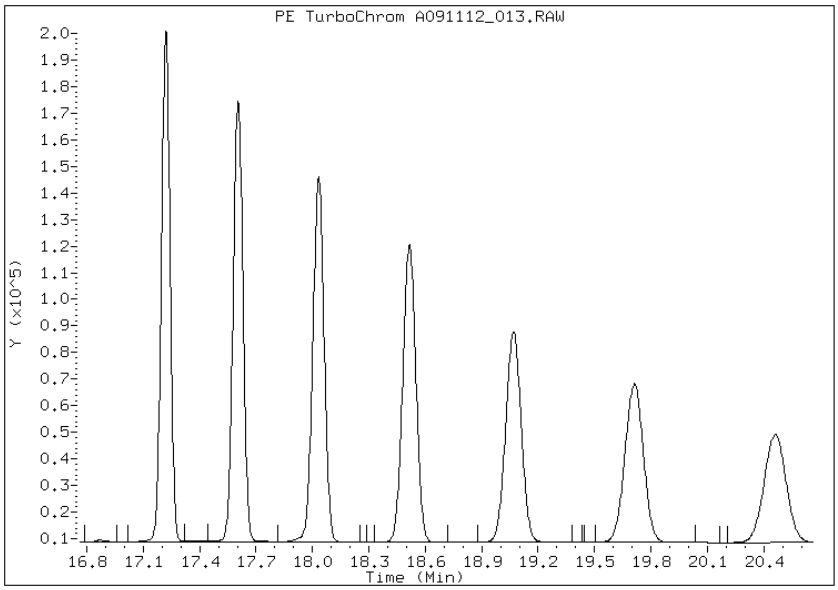
Processing Integration Results

RT: 18.71

Response: 3565164

Amount: 158.95

Conc: 15.89



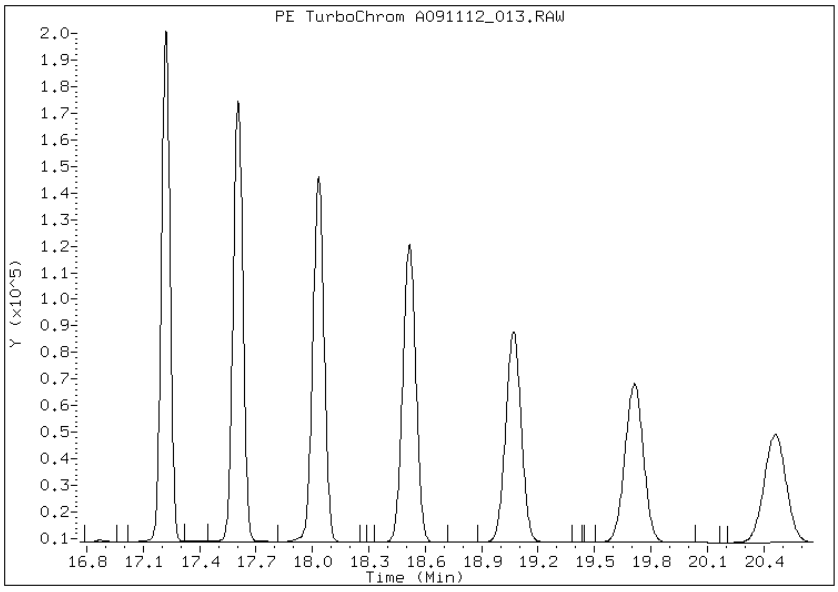
Manual Integration Results

RT: 18.71

Response: 3565164

Amount: 158.95

Conc: 158.95



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCV 600-88431/22 Calibration Date: 09/12/2012 00:52

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_024.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	18289	17372		190	200	-5.0	25.0
>C12-C28	Ave	17481	17290		198	200	-1.1	25.0
>C28-C35	Ave	22430	19151		171	200	-14.6	25.0
o-Terphenyl	Ave	28684	28740		12.5	12.5	0.2	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: CCV 600-88431/22 Calibration Date: 09/12/2012 00:52

Instrument ID: FID07 Calib Start Date: 05/15/2012 17:00

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 05/15/2012 20:26

Lab File ID: A091112_024.d

Analyte	RT	RT WINDOW	
		TO	FROM
C6-C12	5.75	2.54	8.97
C6-C35	11.55	2.54	20.56
>C12-C28	12.92	8.97	16.86
>C28-C35	18.71	16.86	20.56
o-Terphenyl	13.32	13.23	13.43

TestAmerica Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_024.d
Lab Smp Id: CCV
Inj Date : 12-SEP-2012 00:52
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : CCV
Misc Info : 024
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 27-Sep-2012 11:53 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.540-8.966			3474404	200.000	190.0
S	2 Greater than C12-C28	8.966-16.864			3457960	200.000	197.8
S	3 Greater than C28-C35	16.864-20.562			3828640	200.000	170.7
$	4 O-Terphenyl	13.316	13.326	-0.010	359250	12.5000	12.52
S	5 Total C6-C35				10761004	600.000	558.5

Data File: A091112_024.d

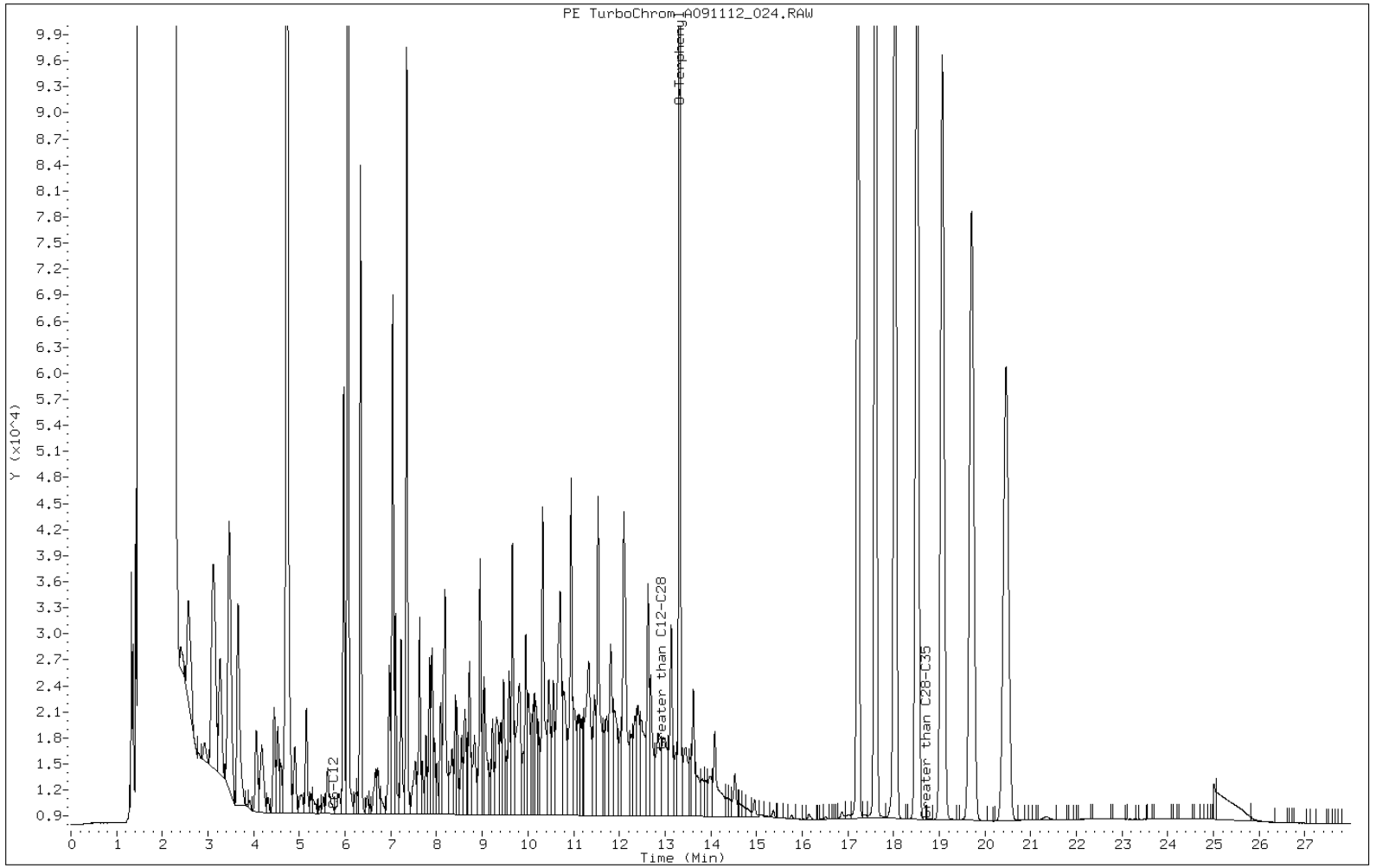
Date: 12-SEP-2012 00:52

Client ID:

Instrument: FID-07.i

Sample Info: CCV

Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-88381/1-A

Matrix: Solid Lab File ID: A091112_003.d

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.00(g) Date Analyzed: 09/11/2012 12:54

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	3.80	U	25.0	3.80
STL00035	>C12-C28	4.06	U	25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	7.48	U	25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_003.d
Lab Smp Id: MB 600-88381/1-A
Inj Date : 11-SEP-2012 12:54
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : MB 600-88381/1-A
Misc Info : 003
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Vo * Uf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	3.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Vo	30.000	Sample Volume (mL)
Uf	2.000	Unit Factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
$ 4 O-Terphenyl	13.323	13.357	-0.034	321282	11.2009	1.12

Data File: A091112_003.d

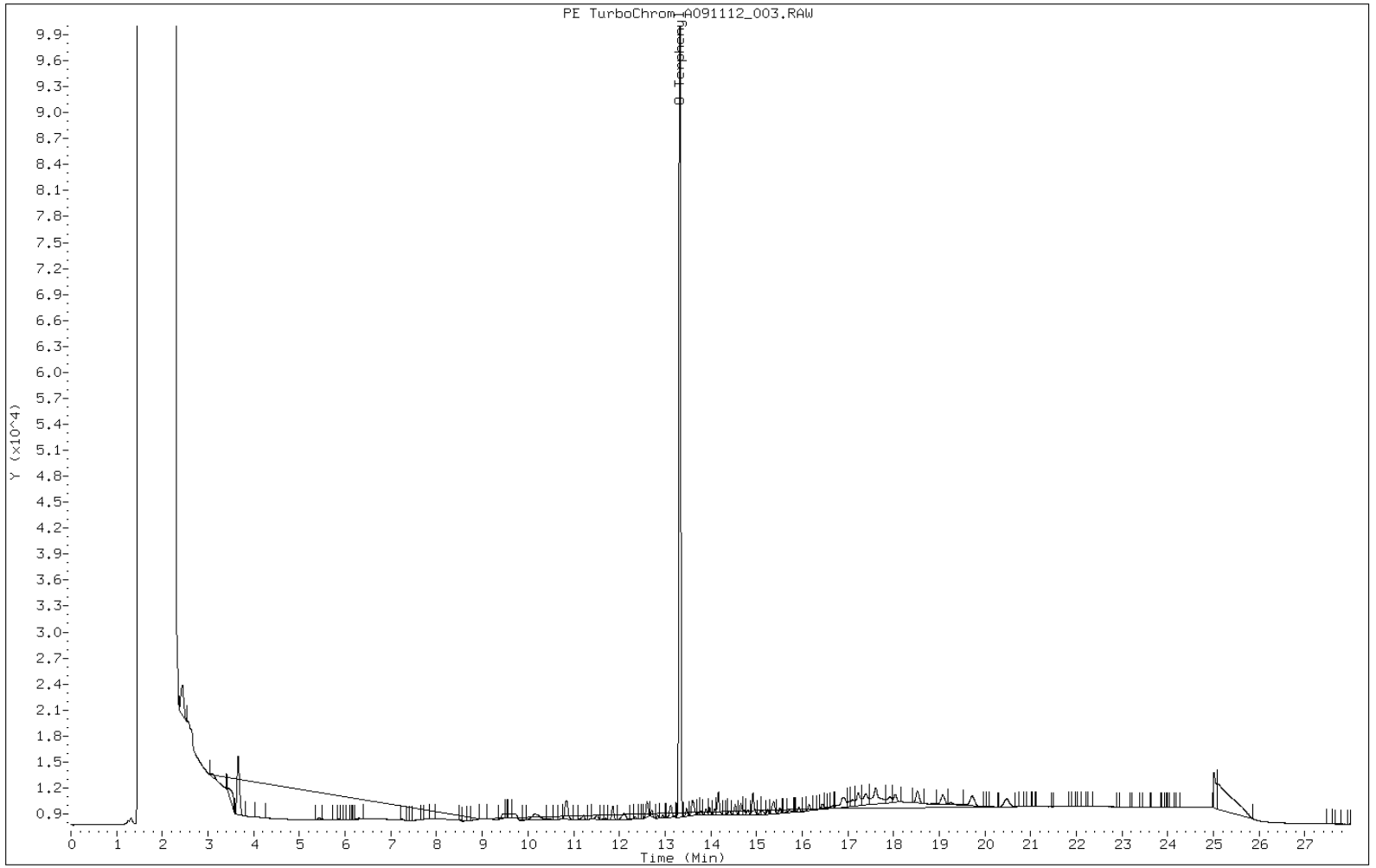
Date: 11-SEP-2012 12:54

Client ID:

Instrument: FID-07.i

Sample Info: MB 600-88381/1-A

Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-88381/2-A

Matrix: Solid Lab File ID: A091112_004.d

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.00(g) Date Analyzed: 09/11/2012 13:28

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	232.6		25.0	3.80
STL00035	>C12-C28	213.9		25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	446.5		25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_004.d
Lab Smp Id: LCS 600-88381/2-A
Inj Date : 11-SEP-2012 13:28
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : LCS 600-88381/2-A
Misc Info : 004
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Vo * Uf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	3.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Vo	30.000	Sample Volume (mL)
Uf	2.000	Unit Factor
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
S	1 C6-C12	2.540-8.966			4253169	232.559	23.26
S	2 Greater than C12-C28	8.966-16.864			3739646	213.926	21.39
$	4 O-Terphenyl	13.316	13.357	-0.041	370942	12.9322	1.29
S	5 Total C6-C35				7992815	446.485	44.65

Data File: A091112_004.d

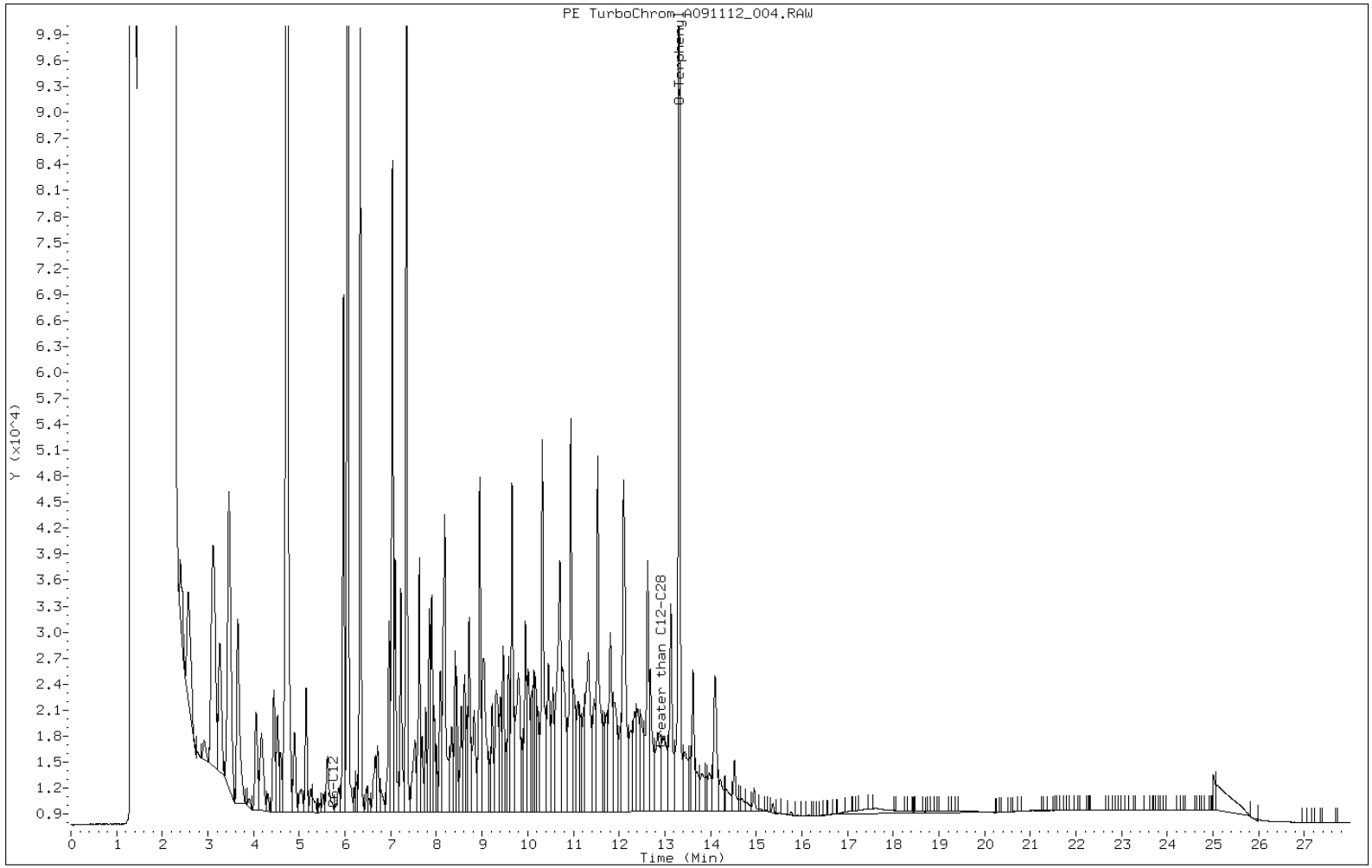
Date: 11-SEP-2012 13:28

Client ID:

Instrument: FID-07.i

Sample Info: LCS 600-88381/2-A

Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-7 (Wall) MS Lab Sample ID: 600-60819-6 MS

Matrix: Solid Lab File ID: A091112_011.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:32

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.03(g) Date Analyzed: 09/11/2012 17:28

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	288.4		30.7	4.66
STL00035	>C12-C28	262.8		30.7	4.98
STL00147	>C28-C35	4.98	U	30.7	4.98
STL00006	C6-C35	551.2		30.7	9.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_011.d
Lab Smp Id: 600-60819-B-6-F MS Client Smp ID: 2012-FWFS-7 (Wall)
Inj Date : 11-SEP-2012 17:28
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-6-F MS
Misc Info : 600-60819-B-6-F MS
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.030	Sample Weight
Uf	2.000	Unit Factor
M	18.740	% Moisture
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
S	1 C6-C12	2.540-8.966			4298814	235.055	288.4(R)
S	2 Greater than C12-C28	8.966-16.864			3743818	214.164	262.8
$	4 O-Terphenyl	13.316	13.357	-0.041	370262	12.9085	15.84
S	5 Total C6-C35				8042632	449.219	551.2(R)

QC Flag Legend

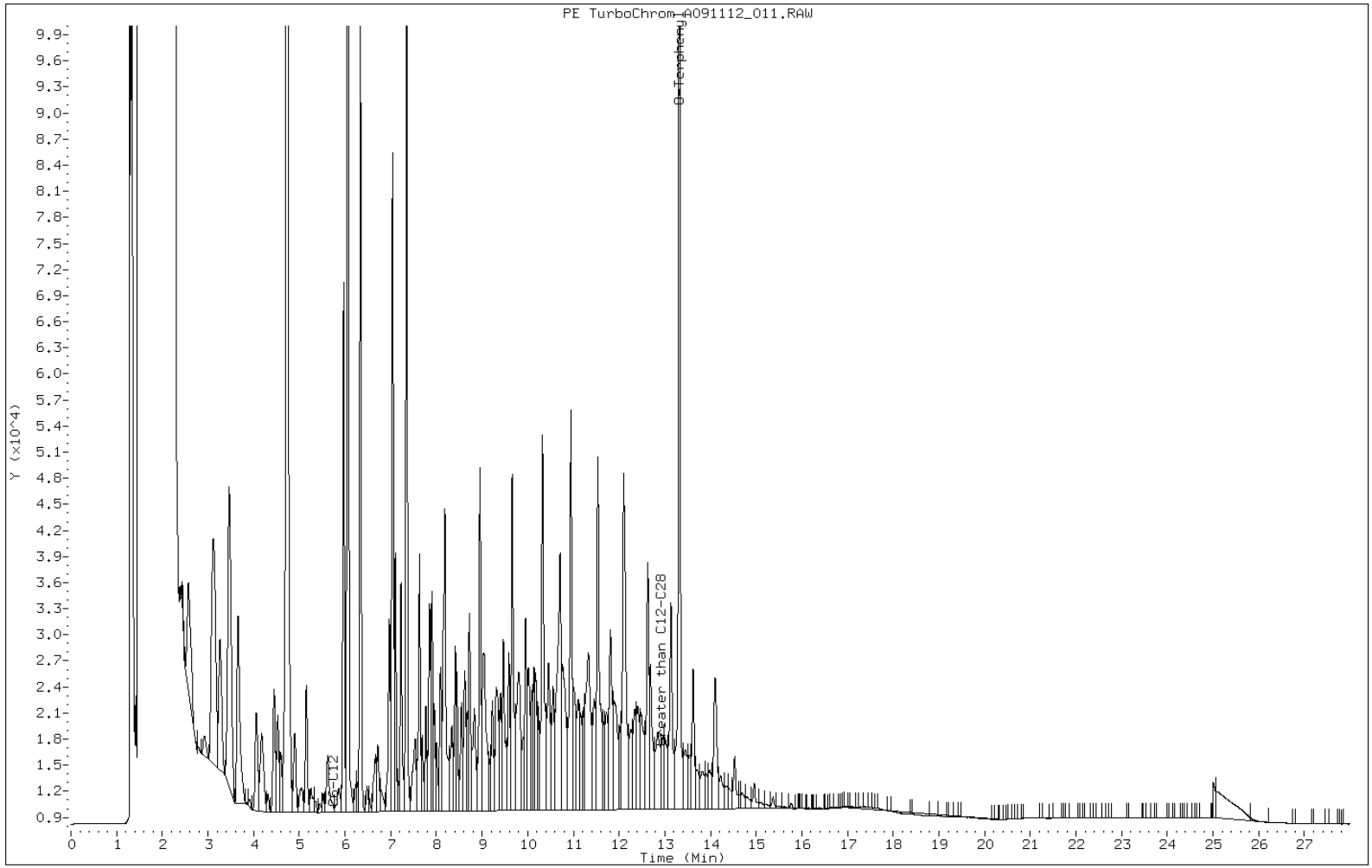
R - Spike/Surrogate failed recovery limits.

Data File: A091112_011.d

Date: 11-SEP-2012 17:28

Client ID: 2012-FWFS-7 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-6-F MS Operator: vanderborghr



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Client Sample ID: 2012-FWFS-7 (Wall) MSD Lab Sample ID: 600-60819-6 MSD

Matrix: Solid Lab File ID: A091112_012.d

Analysis Method: TX 1005 Date Collected: 09/04/2012 11:32

Extraction Method: TX_1005_S_Prep Date Extracted: 09/11/2012 11:27

Sample wt/vol: 10.04(g) Date Analyzed: 09/11/2012 18:02

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 18.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 88431 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	288.0		30.6	4.66
STL00035	>C12-C28	263.5		30.6	4.98
STL00147	>C28-C35	4.98	U	30.6	4.98
STL00006	C6-C35	551.5		30.6	9.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\091112A.b\A091112_012.d
Lab Smp Id: 600-60819-B-6-G MSD Client Smp ID: 2012-FWFS-7 (Wall)
Inj Date : 11-SEP-2012 18:02
Operator : vanderborghr Inst ID: FID-07.i
Smp Info : 600-60819-B-6-G MSD
Misc Info : 600-60819-B-6-G MSD
Comment :
Method : \\housvr4\chem\FID-07.i\091112A.b\1005A.m
Meth Date : 11-Sep-2012 10:57 FID-07.i Quant Type: ESTD
Cal Date : 15-MAY-2012 20:26 Cal File: A051512_010.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.040	Sample Weight
Uf	2.000	Unit Factor
M	18.740	% Moisture
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
S	1 C6-C12	2.540-8.966			4297676	234.993	288.0(R)
S	2 Greater than C12-C28	8.966-16.864			3758232	214.989	263.5
$	4 O-Terphenyl	13.316	13.357	-0.041	366477	12.7766	15.66
S	5 Total C6-C35				8055908	449.982	551.5(R)

QC Flag Legend

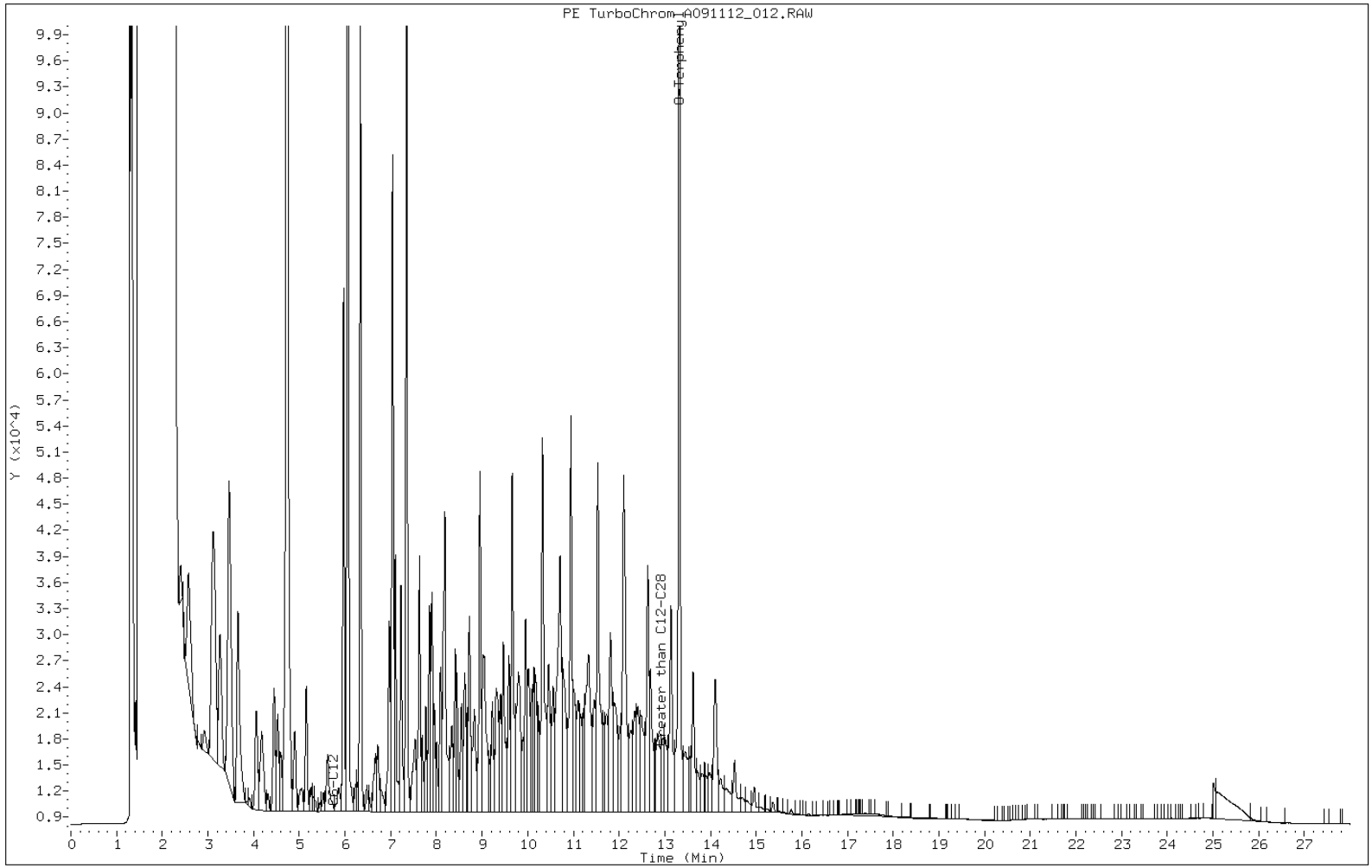
R - Spike/Surrogate failed recovery limits.

Data File: A091112_012.d

Date: 11-SEP-2012 18:02

Client ID: 2012-FWFS-7 (Wall) Instrument: FID-07.i

Sample Info: 600-60819-B-6-G MSD Operator: vanderborghr



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: FID07 Start Date: 05/15/2012 17:00

Analysis Batch Number: 79369 End Date: 05/16/2012 14:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-79369/1		05/15/2012 17:00	1	A051512_004.d	RTX-5 0.53(mm)
IC 600-79369/2		05/15/2012 17:34	1	A051512_005.d	RTX-5 0.53(mm)
IC 600-79369/3		05/15/2012 18:09	1	A051512_006.d	RTX-5 0.53(mm)
ICRT 600-79369/4		05/15/2012 18:43	1	A051512_007.d	RTX-5 0.53(mm)
IC 600-79369/5		05/15/2012 19:18	1	A051512_008.d	RTX-5 0.53(mm)
IC 600-79369/6		05/15/2012 19:52	1	A051512_009.d	RTX-5 0.53(mm)
IC 600-79369/7		05/15/2012 20:26	1	A051512_010.d	RTX-5 0.53(mm)
ICV 600-79369/8		05/15/2012 21:01	1		RTX-5 0.53(mm)
CCV 600-79369/9		05/15/2012 21:35	1		RTX-5 0.53(mm)
ZZZZZ		05/15/2012 22:09	1		RTX-5 0.53(mm)
ZZZZZ		05/15/2012 22:43	1		RTX-5 0.53(mm)
ZZZZZ		05/15/2012 23:18	1		RTX-5 0.53(mm)
ZZZZZ		05/15/2012 23:52	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 00:27	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 03:20	1		RTX-5 0.53(mm)
CCV 600-79369/16		05/16/2012 03:55	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 04:30	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 05:05	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 05:39	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 06:48	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 07:56	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 09:05	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 09:39	1		RTX-5 0.53(mm)
CCV 600-79369/24		05/16/2012 10:13	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 10:48	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 11:23	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 11:58	1		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 12:32	25		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 13:07	5		RTX-5 0.53(mm)
ZZZZZ		05/16/2012 13:42	2		RTX-5 0.53(mm)
CCV 600-79369/30		05/16/2012 14:24	1		RTX-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: FID07 Start Date: 09/11/2012 09:08

Analysis Batch Number: 88431 End Date: 09/12/2012 14:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 600-88431/1		09/11/2012 09:08	1	A091112_002.d	RTX-5 0.53(mm)
MB 600-88381/1-A		09/11/2012 12:54	1	A091112_003.d	RTX-5 0.53(mm)
LCS 600-88381/2-A		09/11/2012 13:28	1	A091112_004.d	RTX-5 0.53(mm)
600-60819-1	2012-FWFS-9 (Floor)	09/11/2012 14:02	1	A091112_005.d	RTX-5 0.53(mm)
600-60819-2	2012-FWFS-9 (Wall)	09/11/2012 14:36	1	A091112_006.d	RTX-5 0.53(mm)
600-60819-3	2012-FWFS-8 (Floor)	09/11/2012 15:10	1	A091112_007.d	RTX-5 0.53(mm)
600-60819-4	2012-FWFS-8 (Wall)	09/11/2012 15:44	1	A091112_008.d	RTX-5 0.53(mm)
600-60819-5	2012-FWFS-7 (Floor)	09/11/2012 16:19	1	A091112_009.d	RTX-5 0.53(mm)
600-60819-6	2012-FWFS-7 (Wall)	09/11/2012 16:53	1	A091112_010.d	RTX-5 0.53(mm)
600-60819-6 MS	2012-FWFS-7 (Wall) MS	09/11/2012 17:28	1	A091112_011.d	RTX-5 0.53(mm)
600-60819-6 MSD	2012-FWFS-7 (Wall) MSD	09/11/2012 18:02	1	A091112_012.d	RTX-5 0.53(mm)
CCV 600-88431/12		09/11/2012 18:36	1	A091112_013.d	RTX-5 0.53(mm)
600-60819-7	2012-FWFS-6 (Floor)	09/11/2012 19:10	1	A091112_014.d	RTX-5 0.53(mm)
600-60819-8	2012-FWFS-6 (Wall)	09/11/2012 19:45	1	A091112_015.d	RTX-5 0.53(mm)
ZZZZZ		09/11/2012 20:18	10		RTX-5 0.53(mm)
ZZZZZ		09/11/2012 20:53	50		RTX-5 0.53(mm)
ZZZZZ		09/11/2012 21:27	1		RTX-5 0.53(mm)
ZZZZZ		09/11/2012 22:01	1		RTX-5 0.53(mm)
ZZZZZ		09/11/2012 22:35	1		RTX-5 0.53(mm)
ZZZZZ		09/11/2012 23:44	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 00:18	1		RTX-5 0.53(mm)
CCV 600-88431/22		09/12/2012 00:52	1	A091112_024.d	RTX-5 0.53(mm)
ZZZZZ		09/12/2012 01:26	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 02:00	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 02:35	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 03:09	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 03:43	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 04:52	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 05:25	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 06:00	1		RTX-5 0.53(mm)
CCV 600-88431/31		09/12/2012 07:09	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 07:42	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 10:07	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 10:41	1		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 11:15	10		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 11:50	3		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 12:45	100		RTX-5 0.53(mm)
ZZZZZ		09/12/2012 13:22	150		RTX-5 0.53(mm)
CCV 600-88431/39		09/12/2012 14:04	1		RTX-5 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Batch Number: 88381 Batch Start Date: 09/11/12 11:27 Batch Analyst: Vo Pham, Ngoc-Ly

Batch Method: TX_1005_S_Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TX1005LCS 00051	TX1005SURR 00076	AnalysisComment	
MB 600-88381/1		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL		250 uL		
LCS 600-88381/2		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL	250 uL	250 uL		
600-60819-B-1	2012-FWFS-9 (Floor)	TX_1005_S_Prep, TX 1005	T	10.07 g	10.00 mL		250 uL	rush	
600-60819-B-2	2012-FWFS-9 (Wall)	TX_1005_S_Prep, TX 1005	T	10.05 g	10.00 mL		250 uL	rush	
600-60819-B-3	2012-FWFS-8 (Floor)	TX_1005_S_Prep, TX 1005	T	10.00 g	10.00 mL		250 uL	rush	
600-60819-B-4	2012-FWFS-8 (Wall)	TX_1005_S_Prep, TX 1005	T	10.03 g	10.00 mL		250 uL	rush	
600-60819-B-5	2012-FWFS-7 (Floor)	TX_1005_S_Prep, TX 1005	T	10.03 g	10.00 mL		250 uL	rush	
600-60819-B-6	2012-FWFS-7 (Wall)	TX_1005_S_Prep, TX 1005	T	10.03 g	10.00 mL		250 uL	rush	
600-60819-B-6 MS	2012-FWFS-7 (Wall)	TX_1005_S_Prep, TX 1005	T	10.03 g	10.00 mL	250 uL	250 uL	rush	
600-60819-B-6 MSD	2012-FWFS-7 (Wall)	TX_1005_S_Prep, TX 1005	T	10.04 g	10.00 mL	250 uL	250 uL	rush	
600-60819-B-7	2012-FWFS-6 (Floor)	TX_1005_S_Prep, TX 1005	T	10.00 g	10.00 mL		250 uL	rush	
600-60819-B-8	2012-FWFS-6 (Wall)	TX_1005_S_Prep, TX 1005	T	10.02 g	10.00 mL		250 uL	rush	

Batch Notes	
Vendor lot number	Pentane-00007
Solvent	Pentane

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-9 (Floor)	600-60819-1 DL
2012-FWFS-9 (Wall)	600-60819-2
2012-FWFS-9 (Wall)	600-60819-2 DL
2012-FWFS-8 (Floor)	600-60819-3
2012-FWFS-8 (Wall)	600-60819-4
2012-FWFS-7 (Floor)	600-60819-5
2012-FWFS-7 (Wall)	600-60819-6
2012-FWFS-7 (Wall)	600-60819-6 DL
2012-FWFS-6 (Floor)	600-60819-7
2012-FWFS-6 (Floor)	600-60819-7 DL
2012-FWFS-6 (Wall)	600-60819-8
2012-FWFS-6 (Wall)	600-60819-8 DL
2012-FWCS-1 (2-2.5')	600-60819-9 DL
2012-FWCS-12 (0-2')	600-60819-10 DL
2012-FWCS-11 (0-2')	600-60819-11 DL
2012-FWCS-EB	600-60819-13

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-9 (Floor)DL
Lab Sample ID: 600-60819-1
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:02
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 96.0

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	984	2.50	0.257	mg/Kg			10	6010B
7439-92-1	Lead	2800	5.01	1.05	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-9 (Wall)
Lab Sample ID: 600-60819-2
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:06
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 72.7

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	15.2	0.341	0.0349	mg/Kg			1	6010B
7439-92-1	Lead	7480	6.81	1.43	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-8 (Floor)
Lab Sample ID: 600-60819-3
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:17
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 76.2

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	10.1	0.325	0.0333	mg/Kg			1	6010B
7439-92-1	Lead	537	0.650	0.136	mg/Kg		b	1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-8 (Wall)
Lab Sample ID: 600-60819-4
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:21
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 79.1

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	3.34	0.316	0.0324	mg/Kg			1	6010B
7439-92-1	Lead	1550	0.632	0.133	mg/Kg		b	1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-7 (Floor)
Lab Sample ID: 600-60819-5
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:29
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 76.8

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.559	0.307	0.0315	mg/Kg			1	6010B
7439-92-1	Lead	28.6	0.614	0.129	mg/Kg		b	1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-7 (Wall)
Lab Sample ID: 600-60819-6
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:32
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 81.3

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	34.8	0.302	0.0309	mg/Kg			1	6010B
7439-92-1	Lead	8540	6.03	1.26	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-6 (Floor)
Lab Sample ID: 600-60819-7
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:44
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 76.8

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	387	0.304	0.0312	mg/Kg			1	6010B
7439-92-1	Lead	4860	6.09	1.28	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-6 (Wall)
Lab Sample ID: 600-60819-8
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 11:50
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 78.3

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	68.9	0.313	0.0321	mg/Kg			1	6010B
7439-92-1	Lead	6970	6.26	1.31	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWCS-1 (2-2.5')DL
Lab Sample ID: 600-60819-9
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 14:18
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 90.1

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	6270	5.44	1.14	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWCS-12 (0-2')DL
Lab Sample ID: 600-60819-10
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 15:41
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 87.7

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	20500	5.64	1.18	mg/Kg		b	10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWCS-11 (0-2')DL
Lab Sample ID: 600-60819-11
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/04/2012 15:55
Reporting Basis: DRY
Date Received: 09/05/2012 09:06
% Solids: 87.3

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	217	56.2	11.8	mg/Kg		b	100	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWCS-EB
Lab Sample ID: 600-60819-13
Lab Name: TestAmerica Houston
Job No.: 600-60819-1
SDG ID.:
Matrix: Water
Date Sampled: 09/04/2012 16:40
Reporting Basis: WET
Date Received: 09/05/2012 09:06

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	0.520	0.0100	0.00290	mg/L			1	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	ICV 600-87992/9 09/06/2012 07:45				CCV 600-87992/88 09/06/2012 10:53				CCV 600-87992/101 09/06/2012 11:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5022		0.500	100	0.5085		0.500	102	0.5048		0.500	101
Lead	0.4949		0.500	99	0.4938		0.500	99	0.4933		0.500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	CCV 600-87992/114 09/06/2012 11:56				CCV 600-87992/127 09/06/2012 12:28				CCV 600-87992/132 09/06/2012 12:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5131		0.500	103	0.4972		0.500	99	0.5124		0.500	102
Lead	0.5082		0.500	102	0.4851		0.500	97	0.4999		0.500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	CCV 600-87992/136 09/06/2012 12:52											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5160		0.500	103								
Lead	0.5020		0.500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	ICV 600-88048/9 09/06/2012 13:35				CCV 600-88048/14 09/06/2012 13:47				CCV 600-88048/27 09/06/2012 14:16			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.4892		0.500	98	0.4996		0.500	100	0.4913		0.500	98
Lead	0.4857		0.500	97	0.4970		0.500	99	0.4941		0.500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	CCV 600-88048/43 09/06/2012 14:56											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium												
Lead	0.4830		0.500	97								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	ICV 600-88124/9 09/07/2012 08:06				CCV 600-88124/27 09/07/2012 08:48				CCV 600-88124/40 09/07/2012 09:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.4993		0.500	100	0.4907		0.500	98	0.4882		0.500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

ICV Source: MET0912CCV_00001 Concentration Units: mg/L

CCV Source: MET0912CCV_00001

Analyte	CCV 600-88124/53 09/07/2012 09:49				CCV 600-88124/66 09/07/2012 10:20				CCV 600-88124/72 09/07/2012 10:34			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.4887		0.500	98	0.4893		0.500	98	0.4910		0.500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-87992/11 09/06/2012 07:49		CCB 600-87992/90 09/06/2012 10:58		CCB 600-87992/103 09/06/2012 11:28		CCB 600-87992/116 09/06/2012 12:00	
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U	0.000730	U
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 600-87992/129 09/06/2012 12:32		CCB 600-87992/134 09/06/2012 12:44		CCB 600-87992/138 09/06/2012 12:56			
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U		
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-88048/11 09/06/2012 13:40		CCB 600-88048/16 09/06/2012 13:51		CCB 600-88048/29 09/06/2012 14:21		CCB 600-88048/45 09/06/2012 15:01	
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U		
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-88124/11 09/07/2012 08:10		CCB 600-88124/29 09/07/2012 08:53		CCB 600-88124/42 09/07/2012 09:23		CCB 600-88124/55 09/07/2012 09:53	
		Found	C	Found	C	Found	C	Found	C
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 600-88124/68 09/07/2012 10:24		CCB 600-88124/74 09/07/2012 10:38					
		Found	C	Found	C	Found	C	Found	C
Lead	0.0100	0.00290	U	0.00290	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 600-87946/1-A

Instrument Code: Thermo6500 Batch No.: 87992

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	0.0256	U		6010B
7439-92-1	Lead	0.1150	J		6010B

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 600-88007/1-A

Instrument Code: Thermo6500 Batch No.: 88124

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	0.00290	U		6010B

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSA 600-87992/12 Instrument ID: Thermo6500

Lab File ID: 090612.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Cadmium		**0.0003**	
Lead		**0.0015**	
Aluminum	*500*	*554*	*111*
Antimony		*-0.0154*	
Arsenic		*-0.0053*	
Barium		*0.0004*	
Beryllium		*0.0000*	
Boron		*0.0047*	
Calcium	*500*	*529*	*106*
Chromium		*0.0025*	
Cobalt		*-0.0005*	
Copper		*0.0043*	
Iron	*200*	*203*	*101*
Lithium		*0.0164*	
Magnesium	*500*	*522*	*104*
Manganese		*-0.0052*	
Molybdenum		*-0.0014*	
Nickel		*0.0239*	
Potassium		*-0.0105*	
Selenium		*-0.0046*	
Silicon		*0.0006*	
Silver		*0.0008*	
Sodium		*0.0150*	
Strontium		*0.0023*	
Thallium		*-0.0074*	
Tin		*0.0032*	
Titanium		*0.0031*	
Vanadium		*-0.0034*	
Zinc		*0.0094*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSAB 600-87992/13 Instrument ID: Thermo6500

Lab File ID: 090612.asc ICS Source: METISB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Cadmium	**0.500**	**0.521**	**104**
Lead	**1.00**	**0.992**	**99**
Aluminum	*510*	*558*	*109*
Antimony	*1.00*	*0.974*	*97*
Arsenic	*1.00*	*1.04*	*104*
Barium	*1.00*	*0.978*	*98*
Beryllium	*0.500*	*0.478*	*96*
Boron	*1.00*	*0.966*	*97*
Calcium	*510*	*541*	*106*
Chromium	*1.00*	*0.925*	*92*
Cobalt	*1.00*	*1.01*	*101*
Copper	*1.00*	*1.06*	*106*
Iron	*210*	*209*	*100*
Lithium	*1.00*	*1.06*	*106*
Magnesium	*510*	*517*	*101*
Manganese	*1.00*	*0.966*	*97*
Molybdenum	*1.00*	*0.965*	*97*
Nickel	*1.00*	*1.01*	*101*
Potassium	*10.0*	*10.1*	*101*
Selenium	*1.00*	*1.02*	*102*
Silicon	*1.00*	*0.924*	*92*
Silver	*0.500*	*0.554*	*111*
Sodium	*10.0*	*10.3*	*103*
Strontium	*0.500*	*0.501*	*100*
Thallium	*1.00*	*0.900*	*90*
Tin	*1.00*	*1.05*	*105*
Titanium	*1.00*	*0.940*	*94*
Vanadium	*1.00*	*0.918*	*92*
Zinc	*1.00*	*1.06*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSA 600-88048/12 Instrument ID: Thermo6500

Lab File ID: A090612.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**0.0002**	
Lead		**0.0043**	
Aluminum	*500*	*550*	*110*
Antimony		*-0.0129*	
Arsenic		*-0.0067*	
Barium		*0.0004*	
Beryllium		*0.0000*	
Boron		*0.0041*	
Calcium	*500*	*508*	*102*
Chromium		*0.0033*	
Cobalt		*-0.0005*	
Copper		*0.0003*	
Iron	*200*	*201*	*101*
Lithium		*0.0165*	
Magnesium	*500*	*525*	*105*
Manganese		*-0.0053*	
Molybdenum		*-0.0014*	
Nickel		*0.0072*	
Potassium		*-0.0224*	
Selenium		*0.0023*	
Silicon		*0.0038*	
Silver		*-0.0013*	
Sodium		*0.0213*	
Strontium		*0.0024*	
Thallium		*0.0291*	
Tin		*0.0034*	
Titanium		*0.0034*	
Vanadium		*-0.0042*	
Zinc		*0.0094*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSAB 600-88048/13 Instrument ID: Thermo6500

Lab File ID: A090612.asc ICS Source: METISB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.511**	**102**
Lead	**1.00**	**1.00**	**100**
Aluminum	*510*	*555*	*109*
Antimony	*1.00*	*0.962*	*96*
Arsenic	*1.00*	*1.00*	*100*
Barium	*1.00*	*0.979*	*98*
Beryllium	*0.500*	*0.487*	*97*
Boron	*1.00*	*0.998*	*100*
Calcium	*510*	*520*	*102*
Chromium	*1.00*	*0.994*	*99*
Cobalt	*1.00*	*1.02*	*102*
Copper	*1.00*	*1.10*	*110*
Iron	*210*	*209*	*99*
Lithium	*1.00*	*1.05*	*105*
Magnesium	*510*	*533*	*105*
Manganese	*1.00*	*0.971*	*97*
Molybdenum	*1.00*	*0.925*	*92*
Nickel	*1.00*	*1.02*	*102*
Potassium	*10.0*	*10.4*	*104*
Selenium	*1.00*	*0.987*	*99*
Silicon	*1.00*	*0.970*	*97*
Silver	*0.500*	*0.560*	*112*
Sodium	*10.0*	*10.4*	*104*
Strontium	*0.500*	*0.491*	*98*
Thallium	*1.00*	*0.772*	*77*
Tin	*1.00*	*1.03*	*103*
Titanium	*1.00*	*1.03*	*103*
Vanadium	*1.00*	*1.01*	*101*
Zinc	*1.00*	*1.07*	*107*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSA 600-88048/106 Instrument ID: Thermo6500

Lab File ID: A090612.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Cadmium		**0.0002**	
Lead		**0.0034**	
Aluminum	*500*	*530*	*106*
Antimony		*-0.0124*	
Arsenic		*-0.0054*	
Barium		*0.0003*	
Beryllium		*0.0000*	
Boron		*-0.0210*	
Calcium	*500*	*476*	*95*
Chromium		*0.0029*	
Cobalt		*-0.0005*	
Copper		*-0.0003*	
Iron	*200*	*188*	*94*
Lithium		*0.0160*	
Magnesium	*500*	*475*	*95*
Manganese		*-0.0047*	
Molybdenum		*-0.0015*	
Nickel		*0.0077*	
Potassium		*0.0068*	
Selenium		*0.0056*	
Silicon		*0.0006*	
Silver		*-0.0015*	
Sodium		*0.0207*	
Strontium		*0.0022*	
Thallium		*-0.0348*	
Tin		*0.0029*	
Titanium		*0.0029*	
Vanadium		*-0.0044*	
Zinc		*0.0090*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSAB 600-88048/107 Instrument ID: Thermo6500

Lab File ID: A090612.asc ICS Source: METISB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.514**	**103**
Lead	**1.00**	**0.973**	**97**
Aluminum	*510*	*588*	*115*
Antimony	*1.00*	*0.989*	*99*
Arsenic	*1.00*	*1.00*	*100*
Barium	*1.00*	*1.04*	*104*
Beryllium	*0.500*	*0.496*	*99*
Boron	*1.00*	*1.00*	*100*
Calcium	*510*	*491*	*96*
Chromium	*1.00*	*0.895*	*90*
Cobalt	*1.00*	*1.02*	*102*
Copper	*1.00*	*1.06*	*106*
Iron	*210*	*213*	*101*
Lithium	*1.00*	*1.14*	*114*
Magnesium	*510*	*522*	*102*
Manganese	*1.00*	*0.863*	*86*
Molybdenum	*1.00*	*0.912*	*91*
Nickel	*1.00*	*0.999*	*100*
Potassium	*10.0*	*11.0*	*110*
Selenium	*1.00*	*0.997*	*100*
Silicon	*1.00*	*0.990*	*99*
Silver	*0.500*	*0.520*	*104*
Sodium	*10.0*	*11.0*	*110*
Strontium	*0.500*	*0.516*	*103*
Thallium	*1.00*	*0.907*	*91*
Tin	*1.00*	*0.997*	*100*
Titanium	*1.00*	*0.963*	*96*
Vanadium	*1.00*	*0.936*	*94*
Zinc	*1.00*	*1.01*	*101*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSA 600-88124/12 Instrument ID: Thermo6500

Lab File ID: 090712.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.0039**	
Aluminum	*500*	*553*	*111*
Antimony		*-0.0170*	
Arsenic		*-0.0036*	
Barium		*0.0003*	
Beryllium		*0.0000*	
Boron		*-0.0020*	
Cadmium		*0.0005*	
Calcium	*500*	*518*	*104*
Chromium		*0.0031*	
Cobalt		*-0.0005*	
Copper		*0.0055*	
Iron	*200*	*203*	*102*
Lithium		*0.0166*	
Magnesium	*500*	*521*	*104*
Manganese		*-0.0053*	
Molybdenum		*-0.0013*	
Nickel		*0.0089*	
Potassium		*-0.0212*	
Selenium		*-0.0065*	
Silicon		*0.0036*	
Silver		*-0.0001*	
Sodium		*0.0252*	
Strontium		*0.0024*	
Thallium		*0.0202*	
Tin		*0.0034*	
Titanium		*0.0035*	
Vanadium		*-0.0036*	
Zinc		*0.0094*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSAB 600-88124/13 Instrument ID: Thermo6500

Lab File ID: 090712.asc ICS Source: METISB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Lead	**1.00**	**0.996**	**100**
Aluminum	*510*	*561*	*110*
Antimony	*1.00*	*0.963*	*96*
Arsenic	*1.00*	*1.01*	*101*
Barium	*1.00*	*0.987*	*99*
Beryllium	*0.500*	*0.484*	*97*
Boron	*1.00*	*0.977*	*98*
Cadmium	*0.500*	*0.515*	*103*
Calcium	*510*	*522*	*102*
Chromium	*1.00*	*0.952*	*95*
Cobalt	*1.00*	*1.02*	*102*
Copper	*1.00*	*1.07*	*107*
Iron	*210*	*212*	*101*
Lithium	*1.00*	*1.07*	*107*
Magnesium	*510*	*523*	*103*
Manganese	*1.00*	*0.960*	*96*
Molybdenum	*1.00*	*0.940*	*94*
Nickel	*1.00*	*1.03*	*103*
Potassium	*10.0*	*10.4*	*104*
Selenium	*1.00*	*0.988*	*99*
Silicon	*1.00*	*0.941*	*94*
Silver	*0.500*	*0.557*	*111*
Sodium	*10.0*	*10.4*	*104*
Strontium	*0.500*	*0.498*	*100*
Thallium	*1.00*	*0.830*	*83*
Tin	*1.00*	*1.03*	*103*
Titanium	*1.00*	*0.985*	*99*
Vanadium	*1.00*	*0.967*	*97*
Zinc	*1.00*	*1.06*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSA 600-88124/88 Instrument ID: Thermo6500

Lab File ID: 090712.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**-0.0008**	
Aluminum	*500*	*535*	*107*
Antimony		*-0.0143*	
Arsenic		*-0.0078*	
Barium		*0.0002*	
Beryllium		*0.0000*	
Boron		*-0.0109*	
Cadmium		*0.0003*	
Calcium	*500*	*599*	*120*
Chromium		*0.0033*	
Cobalt		*-0.0008*	
Copper		*0.0094*	
Iron	*200*	*199*	*99*
Lithium		*0.0163*	
Magnesium	*500*	*477*	*95*
Manganese		*-0.0046*	
Molybdenum		*-0.0015*	
Nickel		*0.0075*	
Potassium		*-0.0226*	
Selenium		*-0.0036*	
Silicon		*0.0044*	
Silver		*0.0002*	
Sodium		*0.0113*	
Strontium		*0.0024*	
Thallium		*-0.0086*	
Tin		*0.0047*	
Titanium		*0.0030*	
Vanadium		*-0.0041*	
Zinc		*0.0090*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Lab Sample ID: ICSAB 600-88124/89 Instrument ID: Thermo6500

Lab File ID: 090712.asc ICS Source: METISB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Lead	**1.00**	**1.00**	**100**
Aluminum	*510*	*546*	*107*
Antimony	*1.00*	*0.985*	*98*
Arsenic	*1.00*	*1.08*	*108*
Barium	*1.00*	*0.985*	*99*
Beryllium	*0.500*	*0.467*	*93*
Boron	*1.00*	*0.913*	*91*
Cadmium	*0.500*	*0.522*	*104*
Calcium	*510*	*618*	*121*
Chromium	*1.00*	*0.989*	*99*
Cobalt	*1.00*	*0.973*	*97*
Copper	*1.00*	*1.15*	*115*
Iron	*210*	*208*	*99*
Lithium	*1.00*	*1.07*	*107*
Magnesium	*510*	*483*	*95*
Manganese	*1.00*	*1.19*	*119*
Molybdenum	*1.00*	*1.04*	*104*
Nickel	*1.00*	*1.05*	*105*
Potassium	*10.0*	*9.78*	*98*
Selenium	*1.00*	*1.09*	*109*
Silicon	*1.00*	*0.857*	*86*
Silver	*0.500*	*0.607*	*121*
Sodium	*10.0*	*10.3*	*103*
Strontium	*0.500*	*0.521*	*104*
Thallium	*1.00*	*0.903*	*90*
Tin	*1.00*	*1.06*	*106*
Titanium	*1.00*	*0.955*	*95*
Vanadium	*1.00*	*0.931*	*93*
Zinc	*1.00*	*0.997*	*100*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 2012-FWFS-7 (Wall) MS Lab ID: 600-60819-6 MS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 81.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Cadmium	70.11		34.8		29.6	119	75-125		6010B
Cadmium	72.36		37.0		29.6	120	75-125		6010B
Lead	4025		8540		59.2	-7635	75-125	4	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 2012-FWFS-7 (Wall) MSD Lab ID: 600-60819-6 MSD

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 81.3

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Cadmium	68.11		30.8	108	75-125	3	20		6010B
Cadmium	73.65		30.8	119	75-125	2	20		6010B
Lead	7494		61.5	-1702	75-125	60	20	4 N	6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: 2012-FWFS-7 (Wall) DU Lab ID: 600-60819-6 DU

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

% Solids for Sample: 81.3 % Solids for Duplicate: 81.3

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Cadmium	0.305	34.8		41.83		18		6010B
Cadmium	3.05	37.0		43.99		17		6010B
Lead	6.09	8540		3685		79	F	6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 600-87946/2-A

Lab Name: TestAmerica Houston Job No.: 600-60819-1

Sample Matrix: Solid LCS Source: METSLCSS_00017

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	71.0	72.59		102	81	119		6010B
Lead	144	146.5		102	79	121		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 600-88007/2-A

Lab Name: TestAmerica Houston Job No.: 600-60819-1

Sample Matrix: Water LCS Source: METSPIKEA_00012

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	1.00	1.007		101	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG Number:

Matrix: Water Instrument ID: Thermo6500

Method: 6010B XMDL Date: 05/16/2008 15:08

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead		0.01	0.0029

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG Number:

Matrix: Solid Instrument ID: Thermo6500

Method: 6010B XMDL Date: 05/15/2008 13:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cadmium		0.005	0.00073
Lead		0.01	0.0029

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum															
Antimony											0.016762				
Arsenic											0.000730				
Barium															
Beryllium															
Boron															
Cadmium				0.006606											
Calcium															
Chromium															
Cobalt															
Copper															
Iron															
Lead			0.000130					-0.000003		-0.000716		0.00005	-0.000008		
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium										0.001769	0.00014				
Tin															
Titanium											0.000212				
Vanadium															
Zinc											-0.000077				

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V
Aluminum				0.024544											-0.023029
Antimony															
Arsenic				0.000336											
Barium															
Beryllium															0.000109
Boron															
Cadmium															0.000051
Calcium															
Chromium															
Cobalt						0.000428							0.001761		
Copper				0.000349											-0.000072
Iron															
Lead				-0.001741		0.000053				0.000127					
Lithium															
Magnesium															
Manganese		0.000013													
Molybdenum															
Nickel				0.000181										0.000158	
Potassium															
Selenium															
Silicon				0.005820											
Silver				0.024544											0.000094
Sodium															
Strontium															
Thallium			0.00095												0.000309
Tin															
Titanium				0.000352											
Vanadium				-0.001293											
Zinc				0.000669											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Zn													
Aluminum															
Antimony															
Arsenic															
Barium															
Beryllium															
Boron															
Cadmium															
Calcium															
Chromium															
Cobalt															
Copper															
Iron															
Lead															
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium															
Tin															
Titanium															
Vanadium															
Zinc															

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-87946/1-A	09/05/2012 14:39	87946	1.00		50
LCS 600-87946/2-A	09/05/2012 14:39	87946	0.50		50
600-60819-1 DL	09/05/2012 14:39	87946	1.04		50
600-60819-2	09/05/2012 14:39	87946	1.01		50
600-60819-2 DL	09/05/2012 14:39	87946	1.01		50
600-60819-3	09/05/2012 14:39	87946	1.01		50
600-60819-4	09/05/2012 14:39	87946	1.00		50
600-60819-5	09/05/2012 14:39	87946	1.06		50
600-60819-6	09/05/2012 14:39	87946	1.02		50
600-60819-6 DL	09/05/2012 14:39	87946	1.02		50
600-60819-6 DU	09/05/2012 14:39	87946	1.01		50
600-60819-6 DU DL	09/05/2012 14:39	87946	1.01		50
600-60819-6 MS	09/05/2012 14:39	87946	1.04		50
600-60819-6 MS DL	09/05/2012 14:39	87946	1.04		50
600-60819-6 MSD	09/05/2012 14:39	87946	1.00		50
600-60819-6 MSD DL	09/05/2012 14:39	87946	1.00		50
600-60819-7	09/05/2012 14:39	87946	1.07		50
600-60819-7 DL	09/05/2012 14:39	87946	1.07		50
600-60819-8	09/05/2012 14:39	87946	1.02		50
600-60819-8 DL	09/05/2012 14:39	87946	1.02		50
600-60819-9 DL	09/05/2012 14:39	87946	1.02		50
600-60819-10 DL	09/05/2012 14:39	87946	1.01		50
600-60819-11 DL	09/05/2012 14:39	87946	1.02		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-88007/1-A	09/06/2012 10:21	88007		50	50
LCS 600-88007/2-A	09/06/2012 10:21	88007		50	50
600-60819-13	09/06/2012 10:21	88007		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 07:26 End Date: 09/06/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
RINSE 600-87992/1			07:26																					
RINSE 600-87992/2			07:28																					
ZZZZZZ			07:31																					
ZZZZZZ			07:34																					
CALIBSTD 600-87992/5 IC			07:36	X	X																			
CALIBSTD 600-87992/6 IC			07:38	X	X																			
CALIBSTD 600-87992/7 IC			07:40	X	X																			
CALIBSTD 600-87992/8 IC			07:42	X	X																			
ICV 600-87992/9	1		07:45	X	X																			
ZZZZZZ			07:47																					
ICBIS 600-87992/11	1		07:49	X	X																			
ICSA 600-87992/12	1		07:52	X	X																			
ICSAB 600-87992/13	1		07:54	X	X																			
CCV 600-87992/14			07:56																					
ZZZZZZ			07:59																					
CCB 600-87992/16			08:01																					
ZZZZZZ			08:03																					
ZZZZZZ			08:06																					
ZZZZZZ			08:08																					
ZZZZZZ			08:11																					
ZZZZZZ			08:13																					
ZZZZZZ			08:15																					
ZZZZZZ			08:17																					
ZZZZZZ			08:20																					
ZZZZZZ			08:22																					
ZZZZZZ			08:25																					
CCV 600-87992/27			08:27																					
ZZZZZZ			08:30																					
CCB 600-87992/29			08:32																					
ZZZZZZ			08:34																					
ZZZZZZ			08:37																					
ZZZZZZ			08:39																					
ZZZZZZ			08:42																					
ZZZZZZ			08:44																					
ZZZZZZ			08:47																					
ZZZZZZ			08:49																					
ZZZZZZ			08:51																					
ZZZZZZ			08:53																					
ZZZZZZ			08:56																					
CCV 600-87992/40			08:58																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 07:26 End Date: 09/06/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			09:00																					
CCB 600-87992/42			09:03																					
ZZZZZZ			09:05																					
ZZZZZZ			09:08																					
ZZZZZZ			09:10																					
ZZZZZZ			09:13																					
ZZZZZZ			09:15																					
ZZZZZZ			09:18																					
ZZZZZZ			09:20																					
ZZZZZZ			09:23																					
ZZZZZZ			09:25																					
ZZZZZZ			09:28																					
CCV 600-87992/53			09:30																					
ZZZZZZ			09:33																					
CCB 600-87992/55			09:35																					
ZZZZZZ			09:37																					
ZZZZZZ			09:40																					
ZZZZZZ			09:42																					
ZZZZZZ			09:44																					
ZZZZZZ			09:47																					
ZZZZZZ			09:49																					
ZZZZZZ			09:51																					
ZZZZZZ			09:54																					
ZZZZZZ			09:56																					
ZZZZZZ			09:58																					
CCV 600-87992/66			10:01																					
ZZZZZZ			10:03																					
CCB 600-87992/68			10:05																					
ZZZZZZ			10:08																					
ZZZZZZ			10:10																					
ZZZZZZ			10:13																					
ZZZZZZ			10:15																					
ZZZZZZ			10:17																					
ZZZZZZ			10:20																					
ZZZZZZ			10:22																					
ZZZZZZ			10:24																					
ZZZZZZ			10:26																					
ZZZZZZ			10:29																					
CCV 600-87992/79			10:31																					
ZZZZZZ			10:33																					
CCB 600-87992/81			10:36																					
ZZZZZZ			10:38																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 07:26 End Date: 09/06/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			10:41																					
ZZZZZZ			10:43																					
ZZZZZZ			10:45																					
ZZZZZZ			10:48																					
ZZZZZZ			10:51																					
CCV 600-87992/88	1		10:53	X	X																			
ZZZZZZ			10:56																					
CCB 600-87992/90	1		10:58	X	X																			
MB 600-87946/1-A	1	T	11:01	X	X																			
LCS 600-87946/2-A	1	T	11:03	X	X																			
ZZZZZZ			11:05																					
ZZZZZZ			11:07																					
ZZZZZZ			11:10																					
ZZZZZZ			11:12																					
ZZZZZZ			11:14																					
ZZZZZZ			11:16																					
ZZZZZZ			11:19																					
ZZZZZZ			11:21																					
CCV 600-87992/101	1		11:23	X	X																			
ZZZZZZ			11:26																					
CCB 600-87992/103	1		11:28	X	X																			
ZZZZZZ			11:30																					
ZZZZZZ			11:33																					
600-60819-2	1	T	11:35	X																				
600-60819-3	1	T	11:38	X	X																			
600-60819-4	1	T	11:40	X	X																			
600-60819-5	1	T	11:43	X	X																			
600-60819-6	1	T	11:46	X																				
600-60819-6 DU	1	T	11:48	X																				
600-60819-6 MS	1	T	11:51	X																				
600-60819-6 MSD	1	T	11:53	X																				
CCV 600-87992/114	1		11:56	X	X																			
ZZZZZZ			11:58																					
CCB 600-87992/116	1		12:00	X	X																			
600-60819-7	1	T	12:03	X																				
600-60819-8	1	T	12:05	X																				
ZZZZZZ			12:08																					
ZZZZZZ			12:10																					
ZZZZZZ			12:13																					
ZZZZZZ			12:16																					
ZZZZZZ			12:18																					
ZZZZZZ			12:21																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 07:26 End Date: 09/06/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			12:23																					
ZZZZZZ			12:25																					
CCV 600-87992/127	1		12:28	X	X																			
ZZZZZZ			12:30																					
CCB 600-87992/129	1		12:32	X	X																			
ZZZZZZ			12:35																					
ZZZZZZ			12:37																					
CCV 600-87992/132	1		12:39	X	X																			
ZZZZZZ			12:42																					
CCB 600-87992/134	1		12:44	X	X																			
ZZZZZZ			12:47																					
CCV 600-87992/136	1		12:52	X	X																			
ZZZZZZ			12:54																					
CCB 600-87992/138	1		12:56	X	X																			
ICSA 600-87992/139			13:00																					
ICSAB 600-87992/140			13:02																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 13:17 End Date: 09/06/2012 17:31

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
RINSE 600-88048/1			13:17																					
RINSE 600-88048/2			13:19																					
ZZZZZZ			13:21																					
ZZZZZZ			13:24																					
CALIBSTD 600-88048/5 IC			13:26	X	X																			
CALIBSTD 600-88048/6 IC			13:28	X	X																			
CALIBSTD 600-88048/7 IC			13:31	X	X																			
CALIBSTD 600-88048/8 IC			13:33	X	X																			
ICV 600-88048/9	1		13:35	X	X																			
ZZZZZZ			13:37																					
ICBIS 600-88048/11	1		13:40	X	X																			
ICSA 600-88048/12	1		13:42	X	X																			
ICSAB 600-88048/13	1		13:44	X	X																			
CCV 600-88048/14	1		13:47	X	X																			
ZZZZZZ			13:49																					
CCB 600-88048/16	1		13:51	X	X																			
600-60819-1 DL	10	T	13:54	X	X																			
600-60819-2 DL	10	T	13:56		X																			
600-60819-6 DL	10	T	13:58		X																			
600-60819-6 DU DL	10	T	14:01	X	X																			
600-60819-6 MS DL	10	T	14:03	X	X																			
600-60819-6 MSD DL	10	T	14:05	X	X																			
600-60819-7 DL	10	T	14:07		X																			
600-60819-8 DL	10	T	14:09		X																			
600-60819-9 DL	10	T	14:12		X																			
600-60819-10 DL	10	T	14:14		X																			
CCV 600-88048/27	1		14:16	X	X																			
ZZZZZZ			14:18																					
CCB 600-88048/29	1		14:21	X	X																			
600-60819-11 DL	100	T	14:23		X																			
ZZZZZZ			14:26																					
ZZZZZZ			14:28																					
ZZZZZZ			14:30																					
ZZZZZZ			14:33																					
ZZZZZZ			14:35																					
ZZZZZZ			14:38																					
ZZZZZZ			14:40																					
ZZZZZZ			14:42																					
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 13:17 End Date: 09/06/2012 17:31

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			14:50																					
ZZZZZZ			14:52																					
CCV 600-88048/43	1		14:56		X																			
ZZZZZZ			14:59																					
CCB 600-88048/45	1		15:01		X																			
ZZZZZZ			15:03																					
ZZZZZZ			15:06																					
ZZZZZZ			15:08																					
ZZZZZZ			15:10																					
ZZZZZZ			15:13																					
ZZZZZZ			15:15																					
ZZZZZZ			15:17																					
ZZZZZZ			15:20																					
ZZZZZZ			15:22																					
ZZZZZZ			15:24																					
CCV 600-88048/56			15:27																					
ZZZZZZ			15:29																					
CCB 600-88048/58			15:31																					
ZZZZZZ			15:34																					
ZZZZZZ			15:36																					
ZZZZZZ			15:38																					
ZZZZZZ			15:41																					
ZZZZZZ			15:43																					
ZZZZZZ			15:45																					
ZZZZZZ			15:48																					
ZZZZZZ			15:50																					
ZZZZZZ			15:52																					
ZZZZZZ			15:55																					
CCV 600-88048/69			15:57																					
ZZZZZZ			15:59																					
CCB 600-88048/71			16:02																					
ZZZZZZ			16:04																					
ZZZZZZ			16:07																					
ZZZZZZ			16:09																					
ZZZZZZ			16:12																					
ZZZZZZ			16:14																					
ZZZZZZ			16:16																					
ZZZZZZ			16:19																					
ZZZZZZ			16:21																					
ZZZZZZ			16:23																					
ZZZZZZ			16:26																					
CCV 600-88048/82			16:28																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/06/2012 13:17 End Date: 09/06/2012 17:31

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			16:30																					
CCB 600-88048/84			16:33																					
ZZZZZZ			16:35																					
ZZZZZZ			16:38																					
ZZZZZZ			16:40																					
ZZZZZZ			16:42																					
ZZZZZZ			16:45																					
ZZZZZZ			16:47																					
ZZZZZZ			16:49																					
ZZZZZZ			16:51																					
ZZZZZZ			16:54																					
ZZZZZZ			16:56																					
CCV 600-88048/95			16:58																					
ZZZZZZ			17:01																					
CCB 600-88048/97			17:03																					
ZZZZZZ			17:05																					
ZZZZZZ			17:08																					
ZZZZZZ			17:10																					
ZZZZZZ			17:13																					
ZZZZZZ			17:15																					
CCV 600-88048/103			17:17																					
ZZZZZZ			17:19																					
CCB 600-88048/105			17:22																					
ICSA 600-88048/106	1		17:24	X	X																			
ICSAB 600-88048/107	1		17:26	X	X																			
RINSE 600-88048/108			17:29																					
RINSE 600-88048/109			17:31																					

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/07/2012 07:47 End Date: 09/07/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Pb																				
RINSE 600-88124/1			07:47																					
RINSE 600-88124/2			07:50																					
ZZZZZZ			07:52																					
ZZZZZZ			07:55																					
CALIBSTD 600-88124/5 IC			07:57	X																				
CALIBSTD 600-88124/6 IC			07:59	X																				
CALIBSTD 600-88124/7 IC			08:01	X																				
CALIBSTD 600-88124/8 IC			08:04	X																				
ICV 600-88124/9	1		08:06	X																				
ZZZZZZ			08:08																					
ICBIS 600-88124/11	1		08:10	X																				
ICSA 600-88124/12	1		08:13	X																				
ICSAB 600-88124/13	1		08:15	X																				
CCV 600-88124/14			08:18																					
ZZZZZZ			08:20																					
CCB 600-88124/16			08:22																					
ZZZZZZ			08:25																					
ZZZZZZ			08:27																					
ZZZZZZ			08:29																					
ZZZZZZ			08:32																					
ZZZZZZ			08:34																					
ZZZZZZ			08:36																					
ZZZZZZ			08:39																					
ZZZZZZ			08:41																					
ZZZZZZ			08:43																					
ZZZZZZ			08:46																					
CCV 600-88124/27	1		08:48	X																				
ZZZZZZ			08:50																					
CCB 600-88124/29	1		08:53	X																				
ZZZZZZ			08:55																					
ZZZZZZ			08:57																					
ZZZZZZ			08:59																					
ZZZZZZ			09:02																					
MB 600-88007/1-A	1	T	09:04	X																				
LCS 600-88007/2-A	1	T	09:06	X																				
ZZZZZZ			09:09																					
ZZZZZZ			09:11																					
ZZZZZZ			09:13																					
ZZZZZZ			09:16																					
CCV 600-88124/40	1		09:18	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/07/2012 07:47 End Date: 09/07/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																				
				Pb																				
ZZZZZZ			09:21																					
CCB 600-88124/42	1		09:23	X																				
ZZZZZZ			09:25																					
ZZZZZZ			09:28																					
ZZZZZZ			09:30																					
ZZZZZZ			09:33																					
ZZZZZZ			09:35																					
ZZZZZZ			09:38																					
ZZZZZZ			09:40																					
ZZZZZZ			09:42																					
ZZZZZZ			09:45																					
ZZZZZZ			09:47																					
CCV 600-88124/53	1		09:49	X																				
ZZZZZZ			09:51																					
CCB 600-88124/55	1		09:53	X																				
ZZZZZZ			09:56																					
ZZZZZZ			09:58																					
600-60819-13	1	T	10:01	X																				
ZZZZZZ			10:03																					
ZZZZZZ			10:06																					
ZZZZZZ			10:08																					
ZZZZZZ			10:10																					
ZZZZZZ			10:13																					
ZZZZZZ			10:15																					
ZZZZZZ			10:17																					
CCV 600-88124/66	1		10:20	X																				
ZZZZZZ			10:22																					
CCB 600-88124/68	1		10:24	X																				
ZZZZZZ			10:27																					
ZZZZZZ			10:29																					
ZZZZZZ			10:31																					
CCV 600-88124/72	1		10:34	X																				
ZZZZZZ			10:36																					
CCB 600-88124/74	1		10:38	X																				
ZZZZZZ			12:26																					
ZZZZZZ			12:28																					
ZZZZZZ			12:30																					
ZZZZZZ			12:33																					
ZZZZZZ			12:35																					
ZZZZZZ			12:37																					
ZZZZZZ			12:40																					
ZZZZZZ			12:42																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/07/2012 07:47 End Date: 09/07/2012 13:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			12:44																				
ZZZZZZ			12:46																				
CCV 600-88124/85			12:49																				
ZZZZZZ			12:51																				
CCB 600-88124/87			12:53																				
ICSA 600-88124/88	1		12:59	X																			
ICSAB 600-88124/89	1		13:02	X																			

Prep Types

T = Total/NA

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:26:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0015	963.8	-0.0012	0.0009
Al3082	308.215 {1	In2306	ppm	0.0178	0.0036	20.07	0.0203	0.0153
As1890	189.042 {4	Y_2243	ppm	0.002	0.0004	21.91	0.0023	0.0017
B_2496	249.678 {1	Y_3710	ppm	0.0024	0.0026	108.1	0.0042	0.0006
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	55.32	-0.0002	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	50.91	0	0.0001
Ca3158	315.887 {1	In2306	ppm	-0.0028	0.0028	102.1	-0.0047	-0.0008
Ca3181	318.128 {1	In2306	ppm	-0.0169	0.0024	14.45	-0.0152	-0.0187
Cd2288	228.802 {4	Y_2243	ppm	-0.0001	0.0001	68.39	0	-0.0001
Co2286	228.616 {4	In2306	ppm	0	0	126.1	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0001	41.05	0.0001	0.0002
Cu3247	324.754 {1	Y_3600	ppm	-0.0069	0.0001	2.096	-0.0071	-0.0068
Fe2404	240.488 {1	In2306	ppm	0.0028	0.0006	20.52	0.0032	0.0024
K_7664	766.490 {	Y_3710	ppm	0.0075	0.0152	202.7	0.0183	-0.0033
K_7698	769.896 {	Y_3710	ppm	0.0078	0.0452	576	-0.0241	0.0398
Li6707	670.784 {	Y_3710	ppm	0.0009	0.0002	18.04	0.0008	0.001
Mg2790	279.079 {1	Y_3710	ppm	0.0076	0.0035	45.52	0.0051	0.01
Mn2576	257.610 {1	Y_3600	ppm	0	0	87.91	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	0	0.0003	721.2	0.0002	-0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0011	0.0001	10.49	0.001	0.0011
Na5895	589.592 {	Y_3710	ppm	-0.0186	0.0026	13.88	-0.0168	-0.0205
Na8183	818.326 {	Y_3710	ppm	-0.0308	0.0271	87.95	-0.05	-0.0117
Ni2316	231.604 {4	In2306	ppm	0.0006	0.0001	23.29	0.0005	0.0007
P_1782	178.284 {4	In2306	ppm	-0.0028	0.0001	1.761	-0.0028	-0.0029
Pb2203	220.353 {4	In2306	ppm	0	0.0003	1135	0.0002	-0.0002
S_1820	182.034 {4	Y_2243	ppm	-5.512	2.403	43.59	-7.211	-3.813
Sb2068	206.833 {4	Y_2243	ppm	0.0009	0.0001	5.602	0.0009	0.0009
Se1960	196.090 {4	Y_2243	ppm	-0.0016	0.0005	29.21	-0.0013	-0.0019
Si2516	251.611 {1	Y_3710	ppm	0.0066	0.0023	34.39	0.005	0.0082
Sn1899	189.989 {4	In2306	ppm	0.0012	0	1.099	0.0012	0.0012
Sr4215	421.552 {	Y_3710	ppm	0	0	88	0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	0.0006	0.0002	36.44	0.0005	0.0008
Tl1908	190.856 {4	In2306	ppm	0.0014	0.0009	60.36	0.0008	0.0021
V_2924	292.402 {1	Y_3600	ppm	0.0004	0.0005	143.1	0.0007	0
Zn2062	206.200 {4	In2306	ppm	0.0015	0	1.425	0.0015	0.0015

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1091.5	7.8055	0.7151	1097	1086
In2306	230.606 {4	Cts/S	20091	21.837	0.10869	20107	20076
Y_2243	224.306 {4	Cts/S	24482	10.477	0.0428	24490	24475
Y_3600	360.073 {	Cts/S	215450	10.474	0.00486	215450	215440
Y_3710	371.030 {	Cts/S	59821	410.46	0.68614	60112	59531

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:28:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.001	0.0002	23.45	-0.0012	-0.0008
Al3082	308.215 {1	In2306	ppm	0.013	0.0138	106	0.0228	0.0033
As1890	189.042 {4	Y_2243	ppm	0.0009	0.0011	130.8	0.0001	0.0017
B_2496	249.678 {1	Y_3710	ppm	0.0034	0.0033	96.78	0.0058	0.0011
Ba4554	455.403 {	Y_3710	ppm	0	0.0001	166.9	0	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	16.87	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	0.0105	0.0004	4.005	0.0108	0.0102
Ca3181	318.128 {1	In2306	ppm	0.0004	0.0123	3446	-0.0084	0.0091
Cd2288	228.802 {4	Y_2243	ppm	-0.0001	0	69.14	0	-0.0001
Co2286	228.616 {4	In2306	ppm	0	0	96.59	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	21.42	0.0002	0.0003
Cu3247	324.754 {1	Y_3600	ppm	-0.0066	0.0001	0.9081	-0.0066	-0.0066
Fe2404	240.488 {1	In2306	ppm	0.0032	0.0023	72.88	0.0048	0.0015
K_7664	766.490 {	Y_3710	ppm	0.0323	0.0141	43.59	0.0423	0.0224
K_7698	769.896 {	Y_3710	ppm	0.0127	0.041	323.7	-0.0163	0.0417
Li6707	670.784 {	Y_3710	ppm	0	0.0007	8204	-0.0005	0.0005
Mg2790	279.079 {1	Y_3710	ppm	0.0808	0.0021	2.608	0.0823	0.0793
Mn2576	257.610 {1	Y_3600	ppm	0.0004	0	7.374	0.0005	0.0004
Mn2576-2	257.610 {1	Y_3710	ppm	0.0005	0.0004	73.89	0.0008	0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	42.66	0.0002	0.0003
Na5895	589.592 {	Y_3710	ppm	0.0044	0.0006	14.52	0.004	0.0049
Na8183	818.326 {	Y_3710	ppm	0.0207	0.0825	399.2	-0.0377	0.079
Ni2316	231.604 {4	In2306	ppm	0.0005	0.0001	22.42	0.0004	0.0006
P_1782	178.284 {4	In2306	ppm	-0.0025	0.0003	13.05	-0.0023	-0.0027
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0001	34.8	0.0005	0.0003
S_1820	182.034 {4	Y_2243	ppm	-4.75	2.086	43.91	-6.224	-3.275
Sb2068	206.833 {4	Y_2243	ppm	-0.0023	0.0009	39.32	-0.003	-0.0017
Se1960	196.090 {4	Y_2243	ppm	-0.0015	0.0002	11.01	-0.0016	-0.0014
Si2516	251.611 {1	Y_3710	ppm	0.0099	0.0013	12.77	0.009	0.0108
Sn1899	189.989 {4	In2306	ppm	0.0003	0.0001	16.16	0.0004	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	867.9	0	0
Ti3349	334.904 {1	Y_3600	ppm	0.0004	0	10.06	0.0003	0.0004
Tl1908	190.856 {4	In2306	ppm	0.0021	0.0003	12.33	0.0023	0.0019
V_2924	292.402 {1	Y_3600	ppm	0.0004	0.0004	114.5	0.0007	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0024	0	0.5072	0.0024	0.0024

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1089.6	0.35096	0.03221	1089.3	1089.8
In2306	230.606 {4	Cts/S	19984	47.126	0.23582	19951	20017
Y_2243	224.306 {4	Cts/S	24213	2.8946	0.01195	24211	24215
Y_3600	360.073 {	Cts/S	215830	85.264	0.03951	215890	215770
Y_3710	371.030 {	Cts/S	59501	88.699	0.14907	59438	59564

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=Blank
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:31:37
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	-0.0001	0	45.69	-0.0001	-0.0001
Al3082	308.215 {1	In2306	Cts/S	0.0187	0.0041	22.03	0.0158	0.0217
As1890	189.042 {4	Y_2243	Cts/S	-0.0001	0	5.882	-0.0001	-0.0001
B_2496	249.678 {1	Y_3710	Cts/S	0.0001	0	26.62	0.0002	0.0001
Ba4554	455.403 {	Y_3710	Cts/S	0.0008	0.0001	8.07	0.0008	0.0008
Be3130	313.042 {1	Y_3710	Cts/S	0	0.0001	196.3	0	-0.0001
Ca3158	315.887 {1	In2306	Cts/S	-0.0314	0.0045	14.22	-0.0283	-0.0346
Ca3181	318.128 {1	In2306	Cts/S	-0.0049	0.0038	77.76	-0.0076	-0.0022
Cd2288	228.802 {4	Y_2243	Cts/S	0.0003	0	12.42	0.0002	0.0003
Co2286	228.616 {4	In2306	Cts/S	-0.0002	0.0001	58.88	-0.0002	-0.0001
Cr2677	267.716 {1	Y_3600	Cts/S	0	0	956	0	0
Cu3247	324.754 {1	Y_3600	Cts/S	0.0036	0	0.9742	0.0036	0.0035
Fe2404	240.488 {1	In2306	Cts/S	0.0008	0.0005	62.72	0.0011	0.0004
K_7664	766.490 {	Y_3710	Cts/S	-0.0006	0.0001	13.03	-0.0006	-0.0007
K_7698	769.896 {	Y_3710	Cts/S	0.003	0.0002	5.96	0.0029	0.0031
Li6707	670.784 {	Y_3710	Cts/S	-0.0001	0.0002	132.4	0	-0.0003
Mg2790	279.079 {1	Y_3710	Cts/S	0	0	113.6	0	0
Mn2576	257.610 {1	Y_3600	Cts/S	0	0	13.72	0	0
Mn2576-2	257.610 {1	Y_3710	Cts/S	0	0	143.3	0	0
Mo2020	202.030 {4	Y_2243	Cts/S	0.0001	0	12.88	0.0001	0.0001
Na5895	589.592 {	Y_3710	Cts/S	0.0018	0	0.4915	0.0018	0.0018
Na8183	818.326 {	Y_3710	Cts/S	-0.0003	0.0002	62.27	-0.0004	-0.0002
Ni2316	231.604 {4	In2306	Cts/S	0	0	155.8	0	0.0001
P_1782	178.284 {4	In2306	Cts/S	0.0002	0	5.787	0.0002	0.0002
Pb2203	220.353 {4	In2306	Cts/S	-0.0002	0	19.14	-0.0002	-0.0002
S_1820	182.034 {4	Y_2243	Cts/S	-0.0001	0	5.569	-0.0001	-0.0001
Sb2068	206.833 {4	Y_2243	Cts/S	-0.0001	0	19.27	-0.0001	-0.0001
Se1960	196.090 {4	Y_2243	Cts/S	-0.0001	0	28.53	-0.0001	-0.0001
Si2516	251.611 {1	Y_3710	Cts/S	0.0002	0.0001	27.99	0.0002	0.0002
Sn1899	189.989 {4	In2306	Cts/S	0.0001	0	15.61	0.0001	0.0001
Sr4215	421.552 {	Y_3710	Cts/S	0.0003	0.0001	34.46	0.0004	0.0002
Ti3349	334.904 {1	Y_3600	Cts/S	0	0	19.14	0	0
Tl1908	190.856 {4	In2306	Cts/S	0	0	30.52	0	-0.0001
V_2924	292.402 {1	Y_3600	Cts/S	-0.0002	0	7.688	-0.0002	-0.0002
Zn2062	206.200 {4	In2306	Cts/S	0.0011	0	1.64	0.0011	0.0011

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1088.1	2.7593	0.25358	1090.1	1086.2
In2306	230.606 {4	Cts/S	19935	73.409	0.36824	19883	19987
Y_2243	224.306 {4	Cts/S	23984	82.908	0.34568	23925	24043
Y_3600	360.073 {	Cts/S	214900	493.69	0.22974	214550	215250
Y_3710	371.030 {	Cts/S	60171	200.42	0.33308	60312	60029

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CalibStd-1
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:34:01
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.005	0	0.1381	0.005	0.005
Al3082	308.215 {1	In2306	Cts/S	0.3975	0.0004	0.1034	0.3972	0.3977
As1890	189.042 {4	Y_2243	Cts/S	0.0047	0	0.5359	0.0047	0.0047
B_2496	249.678 {1	Y_3710	Cts/S	0.0027	0	1.49	0.0028	0.0027
Ba4554	455.403 {	Y_3710	Cts/S	0.1835	0	0.0262	0.1835	0.1835
Be3130	313.042 {1	Y_3710	Cts/S	0.1288	0.0002	0.1691	0.1287	0.129
Ca3158	315.887 {1	In2306	Cts/S	0.5153	0.0064	1.25	0.5199	0.5108
Ca3181	318.128 {1	In2306	Cts/S	0.2911	0.0067	2.311	0.2959	0.2863
Cd2288	228.802 {4	Y_2243	Cts/S	0.0572	0.0003	0.5618	0.057	0.0574
Co2286	228.616 {4	In2306	Cts/S	0.0779	0.0006	0.7592	0.0775	0.0784
Cr2677	267.716 {1	Y_3600	Cts/S	0.008	0	0.2733	0.008	0.008
Cu3247	324.754 {1	Y_3600	Cts/S	0.0246	0.0001	0.2447	0.0245	0.0246
Fe2404	240.488 {1	In2306	Cts/S	0.9884	0.0028	0.2822	0.9904	0.9865
K_7664	766.490 {	Y_3710	Cts/S	0.015	0	0.2225	0.0149	0.015
K_7698	769.896 {	Y_3710	Cts/S	0.0098	0	0.1027	0.0098	0.0098
Li6707	670.784 {	Y_3710	Cts/S	0.0414	0.0001	0.2904	0.0413	0.0414
Mg2790	279.079 {1	Y_3710	Cts/S	0.0051	0.0001	1.653	0.005	0.0051
Mn2576	257.610 {1	Y_3600	Cts/S	0.0175	0.0001	0.3704	0.0175	0.0174
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0093	0	0.1567	0.0093	0.0093
Mo2020	202.030 {4	Y_2243	Cts/S	0.0271	0.0001	0.538	0.027	0.0272
Na5895	589.592 {	Y_3710	Cts/S	0.0496	0.0001	0.2339	0.0497	0.0495
Na8183	818.326 {	Y_3710	Cts/S	0.0013	0.0001	6.328	0.0012	0.0013
Ni2316	231.604 {4	In2306	Cts/S	0.039	0.0002	0.6313	0.0389	0.0392
P_1782	178.284 {4	In2306	Cts/S	0.0034	0	0.3982	0.0034	0.0034
Pb2203	220.353 {4	In2306	Cts/S	0.0116	0.0001	0.6188	0.0115	0.0116
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	7.042	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0049	0	0.9455	0.0048	0.0049
Se1960	196.090 {4	Y_2243	Cts/S	0.0027	0	0.7602	0.0027	0.0027
Si2516	251.611 {1	Y_3710	Cts/S	0.0016	0	0.8747	0.0016	0.0016
Sn1899	189.989 {4	In2306	Cts/S	0.0131	0.0001	0.4557	0.0131	0.0132
Sr4215	421.552 {	Y_3710	Cts/S	0.1392	0	0.0155	0.1392	0.1392
Ti3349	334.904 {1	Y_3600	Cts/S	0.0157	0.0001	0.396	0.0157	0.0158
Tl1908	190.856 {4	In2306	Cts/S	0.0055	0	0.4177	0.0055	0.0056
V_2924	292.402 {1	Y_3600	Cts/S	0.0127	0.0001	0.4433	0.0127	0.0127
Zn2062	206.200 {4	In2306	Cts/S	0.0741	0.0006	0.7592	0.0737	0.0745

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1076.2	7.9325	0.73708	1070.6	1081.8
In2306	230.606 {4	Cts/S	19742	123.49	0.62552	19829	19655
Y_2243	224.306 {4	Cts/S	23937	172.55	0.72088	24059	23815
Y_3600	360.073 {	Cts/S	214300	416.86	0.19452	214600	214010
Y_3710	371.030 {	Cts/S	59986	27.559	0.04594	60006	59967

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CalibStd-2
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:36:18
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0101	0	0.3723	0.0101	0.0102
Al3082	308.215 {1	In2306	Cts/S	0.7767	0.0063	0.81	0.7722	0.7811
As1890	189.042 {4	Y_2243	Cts/S	0.0092	0.0002	1.773	0.0094	0.0091
B_2496	249.678 {1	Y_3710	Cts/S	0.0052	0.0001	1.493	0.0051	0.0053
Ba4554	455.403 {	Y_3710	Cts/S	0.3663	0.0002	0.0538	0.3662	0.3665
Be3130	313.042 {1	Y_3710	Cts/S	0.2587	0.0006	0.2261	0.2583	0.2591
Ca3158	315.887 {1	In2306	Cts/S	1.08	0.0076	0.7053	1.075	1.086
Ca3181	318.128 {1	In2306	Cts/S	0.5893	0.0089	1.515	0.583	0.5956
Cd2288	228.802 {4	Y_2243	Cts/S	0.1118	0.0018	1.588	0.113	0.1105
Co2286	228.616 {4	In2306	Cts/S	0.1533	0.0021	1.369	0.1548	0.1518
Cr2677	267.716 {1	Y_3600	Cts/S	0.0159	0.0001	0.5158	0.0158	0.016
Cu3247	324.754 {1	Y_3600	Cts/S	0.0458	0.0002	0.496	0.0456	0.046
Fe2404	240.488 {1	In2306	Cts/S	1.965	0.0011	0.0585	1.964	1.966
K_7664	766.490 {	Y_3710	Cts/S	0.0306	0.0001	0.4815	0.0308	0.0305
K_7698	769.896 {	Y_3710	Cts/S	0.0169	0.0002	1.259	0.0167	0.017
Li6707	670.784 {	Y_3710	Cts/S	0.0832	0.0001	0.1636	0.0833	0.0831
Mg2790	279.079 {1	Y_3710	Cts/S	0.0101	0	0.4168	0.0101	0.0102
Mn2576	257.610 {1	Y_3600	Cts/S	0.0357	0.0002	0.4679	0.0358	0.0355
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0187	0	0.1695	0.0187	0.0187
Mo2020	202.030 {4	Y_2243	Cts/S	0.0538	0.0008	1.434	0.0543	0.0532
Na5895	589.592 {	Y_3710	Cts/S	0.098	0.0001	0.0795	0.0979	0.098
Na8183	818.326 {	Y_3710	Cts/S	0.0035	0.0001	1.53	0.0035	0.0036
Ni2316	231.604 {4	In2306	Cts/S	0.0764	0.0011	1.439	0.0772	0.0756
P_1782	178.284 {4	In2306	Cts/S	0.0066	0.0001	1.599	0.0067	0.0066
Pb2203	220.353 {4	In2306	Cts/S	0.023	0.0003	1.272	0.0233	0.0228
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	5.659	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0097	0.0002	2.001	0.0098	0.0095
Se1960	196.090 {4	Y_2243	Cts/S	0.0054	0.0001	1.319	0.0055	0.0054
Si2516	251.611 {1	Y_3710	Cts/S	0.003	0	0.9222	0.003	0.003
Sn1899	189.989 {4	In2306	Cts/S	0.0258	0.0003	0.9954	0.026	0.0256
Sr4215	421.552 {	Y_3710	Cts/S	0.2814	0	0.0119	0.2814	0.2814
Ti3349	334.904 {1	Y_3600	Cts/S	0.0316	0.0001	0.4696	0.0315	0.0317
Tl1908	190.856 {4	In2306	Cts/S	0.011	0.0002	1.427	0.0111	0.0109
V_2924	292.402 {1	Y_3600	Cts/S	0.0258	0.0001	0.4353	0.0257	0.0259
Zn2062	206.200 {4	In2306	Cts/S	0.1452	0.0021	1.471	0.1467	0.1437

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1064.3	3.694	0.34709	1066.9	1061.7
In2306	230.606 {4	Cts/S	19751	211.13	1.069	19602	19900
Y_2243	224.306 {4	Cts/S	24100	259.52	1.0768	23917	24284
Y_3600	360.073 {	Cts/S	211660	1001.1	0.47297	212370	210960
Y_3710	371.030 {	Cts/S	59455	283.99	0.47764	59656	59255

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CalibStd-3
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:38:34
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0202	0.0004	2.226	0.0205	0.0199
Al3082	308.215 {1	In2306	Cts/S	1.493	0.0482	3.23	1.459	1.527
As1890	189.042 {4	Y_2243	Cts/S	0.0192	0.0002	0.7825	0.0193	0.0191
B_2496	249.678 {1	Y_3710	Cts/S	0.0098	0.0003	3.03	0.0096	0.01
Ba4554	455.403 {	Y_3710	Cts/S	0.7034	0.0184	2.615	0.6904	0.7164
Be3130	313.042 {1	Y_3710	Cts/S	0.4942	0.0113	2.282	0.4862	0.5021
Ca3158	315.887 {1	In2306	Cts/S	2.158	0.0322	1.492	2.135	2.18
Ca3181	318.128 {1	In2306	Cts/S	1.132	0.02	1.764	1.118	1.146
Cd2288	228.802 {4	Y_2243	Cts/S	0.2294	0.0012	0.5169	0.2302	0.2286
Co2286	228.616 {4	In2306	Cts/S	0.3172	0.0012	0.39	0.3181	0.3163
Cr2677	267.716 {1	Y_3600	Cts/S	0.0316	0.0007	2.265	0.0321	0.0311
Cu3247	324.754 {1	Y_3600	Cts/S	0.0874	0.0019	2.132	0.0887	0.0861
Fe2404	240.488 {1	In2306	Cts/S	3.826	0.0707	1.848	3.776	3.876
K_7664	766.490 {	Y_3710	Cts/S	0.0594	0.0012	1.955	0.0586	0.0602
K_7698	769.896 {	Y_3710	Cts/S	0.0297	0.0008	2.62	0.0291	0.0302
Li6707	670.784 {	Y_3710	Cts/S	0.1576	0.0046	2.906	0.1544	0.1609
Mg2790	279.079 {1	Y_3710	Cts/S	0.0195	0.0003	1.671	0.0192	0.0197
Mn2576	257.610 {1	Y_3600	Cts/S	0.0707	0.0017	2.352	0.0718	0.0695
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0361	0.0009	2.462	0.0355	0.0367
Mo2020	202.030 {4	Y_2243	Cts/S	0.1107	0.0006	0.5196	0.1111	0.1103
Na5895	589.592 {	Y_3710	Cts/S	0.1858	0.0039	2.081	0.1831	0.1885
Na8183	818.326 {	Y_3710	Cts/S	0.0072	0.0004	5.547	0.007	0.0075
Ni2316	231.604 {4	In2306	Cts/S	0.1577	0.0007	0.4602	0.1582	0.1572
P_1782	178.284 {4	In2306	Cts/S	0.0139	0	0.0326	0.0139	0.0139
Pb2203	220.353 {4	In2306	Cts/S	0.0479	0.0003	0.6919	0.0482	0.0477
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	8.867	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.02	0.0001	0.4362	0.0201	0.02
Se1960	196.090 {4	Y_2243	Cts/S	0.0113	0	0.1437	0.0113	0.0113
Si2516	251.611 {1	Y_3710	Cts/S	0.0057	0.0002	3.3	0.0056	0.0058
Sn1899	189.989 {4	In2306	Cts/S	0.0541	0.0002	0.3915	0.0542	0.0539
Sr4215	421.552 {	Y_3710	Cts/S	0.534	0.0145	2.721	0.5238	0.5443
Ti3349	334.904 {1	Y_3600	Cts/S	0.0629	0.0013	2.093	0.0639	0.062
Tl1908	190.856 {4	In2306	Cts/S	0.0229	0.0002	0.734	0.023	0.0228
V_2924	292.402 {1	Y_3600	Cts/S	0.0514	0.0012	2.321	0.0523	0.0506
Zn2062	206.200 {4	In2306	Cts/S	0.3	0.0016	0.5235	0.3011	0.2988

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1089.9	10.587	0.9714	1097.4	1082.4
In2306	230.606 {4	Cts/S	18919	26.351	0.13928	18900	18937
Y_2243	224.306 {4	Cts/S	23407	18.915	0.08081	23394	23421
Y_3600	360.073 {	Cts/S	210730	3472.7	1.6479	208280	213190
Y_3710	371.030 {	Cts/S	61042	638.5	1.046	61493	60590

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CalibStd-4
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:40:44
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0408	0.0002	0.4151	0.0407	0.0409
Al3082	308.215 {1	In2306	Cts/S	3.106	0.0212	0.6813	3.091	3.121
As1890	189.042 {4	Y_2243	Cts/S	0.0388	0	0.1221	0.0388	0.0389
B_2496	249.678 {1	Y_3710	Cts/S	0.02	0.0003	1.35	0.0198	0.0202
Ba4554	455.403 {	Y_3710	Cts/S	1.474	0.0085	0.5792	1.468	1.48
Be3130	313.042 {1	Y_3710	Cts/S	1.021	0.0098	0.9639	1.014	1.028
Ca3158	315.887 {1	In2306	Cts/S	4.584	0.0613	1.337	4.54	4.627
Ca3181	318.128 {1	In2306	Cts/S	2.39	0.0337	1.409	2.366	2.414
Cd2288	228.802 {4	Y_2243	Cts/S	0.4571	0.0027	0.5902	0.4552	0.459
Co2286	228.616 {4	In2306	Cts/S	0.6422	0.0036	0.5649	0.6397	0.6448
Cr2677	267.716 {1	Y_3600	Cts/S	0.064	0.0005	0.7284	0.0637	0.0644
Cu3247	324.754 {1	Y_3600	Cts/S	0.1742	0.0003	0.1747	0.174	0.1744
Fe2404	240.488 {1	In2306	Cts/S	8.003	0.0789	0.9863	7.948	8.059
K_7664	766.490 {	Y_3710	Cts/S	0.1226	0.0009	0.6991	0.122	0.1232
K_7698	769.896 {	Y_3710	Cts/S	0.058	0.0007	1.162	0.0575	0.0585
Li6707	670.784 {	Y_3710	Cts/S	0.3261	0.0016	0.4818	0.325	0.3272
Mg2790	279.079 {1	Y_3710	Cts/S	0.0398	0.0005	1.381	0.0394	0.0402
Mn2576	257.610 {1	Y_3600	Cts/S	0.144	0.0011	0.7964	0.1432	0.1448
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0741	0.0007	0.9501	0.0736	0.0746
Mo2020	202.030 {4	Y_2243	Cts/S	0.2198	0.0011	0.506	0.219	0.2206
Na5895	589.592 {	Y_3710	Cts/S	0.3816	0.0028	0.7297	0.3796	0.3836
Na8183	818.326 {	Y_3710	Cts/S	0.0152	0	0.1113	0.0153	0.0152
Ni2316	231.604 {4	In2306	Cts/S	0.3183	0.0016	0.5066	0.3172	0.3194
P_1782	178.284 {4	In2306	Cts/S	0.0285	0.0003	1.063	0.0283	0.0287
Pb2203	220.353 {4	In2306	Cts/S	0.0958	0.0007	0.7415	0.0953	0.0963
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	12.67	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0402	0.0005	1.227	0.0399	0.0406
Se1960	196.090 {4	Y_2243	Cts/S	0.0227	0.0002	0.9814	0.0225	0.0228
Si2516	251.611 {1	Y_3710	Cts/S	0.0117	0.0002	1.687	0.0115	0.0118
Sn1899	189.989 {4	In2306	Cts/S	0.1087	0.0004	0.3845	0.1084	0.109
Sr4215	421.552 {	Y_3710	Cts/S	1.109	0.0072	0.6485	1.104	1.114
Ti3349	334.904 {1	Y_3600	Cts/S	0.1277	0.0005	0.4266	0.1273	0.1281
Tl1908	190.856 {4	In2306	Cts/S	0.0457	0.0001	0.1594	0.0456	0.0457
V_2924	292.402 {1	Y_3600	Cts/S	0.105	0.0007	0.6508	0.1046	0.1055
Zn2062	206.200 {4	In2306	Cts/S	0.6047	0.0022	0.3575	0.6032	0.6062

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1051.1	13.521	1.2864	1060.6	1041.5
In2306	230.606 {4	Cts/S	18481	102.84	0.55646	18553	18408
Y_2243	224.306 {4	Cts/S	23312	145.12	0.6225	23414	23209
Y_3600	360.073 {	Cts/S	206430	1203.9	0.58319	207280	205580
Y_3710	371.030 {	Cts/S	59821	585.32	0.97844	60235	59408

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CalibStd-5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:42:53
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0821	0.0042	5.089	0.0792	0.0851
Al3082	308.215 {1	In2306	Cts/S	6.029	0.0388	0.6431	6.002	6.057
As1890	189.042 {4	Y_2243	Cts/S	0.0773	0.0002	0.2856	0.0775	0.0772
B_2496	249.678 {1	Y_3710	Cts/S	0.0392	0.0001	0.3269	0.0393	0.0391
Ba4554	455.403 {	Y_3710	Cts/S	2.887	0.0089	0.3083	2.881	2.894
Be3130	313.042 {1	Y_3710	Cts/S	1.992	0.0034	0.1711	1.995	1.99
Ca3158	315.887 {1	In2306	Cts/S	8.972	0.0551	0.6146	8.933	9.011
Ca3181	318.128 {1	In2306	Cts/S	4.668	0.0294	0.6291	4.689	4.647
Cd2288	228.802 {4	Y_2243	Cts/S	0.9103	0.0033	0.3627	0.9126	0.908
Co2286	228.616 {4	In2306	Cts/S	1.291	0.0057	0.4414	1.295	1.287
Cr2677	267.716 {1	Y_3600	Cts/S	0.1282	0.0061	4.781	0.1239	0.1325
Cu3247	324.754 {1	Y_3600	Cts/S	0.3494	0.0167	4.785	0.3376	0.3612
Fe2404	240.488 {1	In2306	Cts/S	15.59	0.0453	0.2907	15.56	15.62
K_7664	766.490 {	Y_3710	Cts/S	0.2409	0.0005	0.214	0.2413	0.2406
K_7698	769.896 {	Y_3710	Cts/S	0.1103	0	0.0317	0.1103	0.1102
Li6707	670.784 {	Y_3710	Cts/S	0.6343	0.0017	0.2686	0.6331	0.6355
Mg2790	279.079 {1	Y_3710	Cts/S	0.0775	0.0003	0.3796	0.0777	0.0773
Mn2576	257.610 {1	Y_3600	Cts/S	0.2886	0.0148	5.134	0.2781	0.2991
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.145	0	0.015	0.145	0.145
Mo2020	202.030 {4	Y_2243	Cts/S	0.4332	0.002	0.4707	0.4346	0.4317
Na5895	589.592 {	Y_3710	Cts/S	0.7457	0.0005	0.0651	0.746	0.7454
Na8183	818.326 {	Y_3710	Cts/S	0.0298	0.0001	0.4317	0.0299	0.0297
Ni2316	231.604 {4	In2306	Cts/S	0.6383	0.0034	0.5299	0.6407	0.6359
P_1782	178.284 {4	In2306	Cts/S	0.0583	0.0002	0.4032	0.0585	0.0581
Pb2203	220.353 {4	In2306	Cts/S	0.1914	0.0011	0.5749	0.1922	0.1906
Sb2068	206.833 {4	Y_2243	Cts/S	0.0797	0.0003	0.3416	0.0799	0.0795
Se1960	196.090 {4	Y_2243	Cts/S	0.0453	0.0002	0.4003	0.0454	0.0452
Si2516	251.611 {1	Y_3710	Cts/S	0.0227	0.0003	1.15	0.0225	0.0228
Sn1899	189.989 {4	In2306	Cts/S	0.2184	0.0008	0.3607	0.2189	0.2178
Sr4215	421.552 {	Y_3710	Cts/S	2.164	0.0041	0.1911	2.161	2.167
Ti3349	334.904 {1	Y_3600	Cts/S	0.2562	0.0116	4.529	0.248	0.2644
Tl1908	190.856 {4	In2306	Cts/S	0.0902	0.0006	0.6104	0.0906	0.0898
V_2924	292.402 {1	Y_3600	Cts/S	0.2129	0.0101	4.751	0.2058	0.2201
Zn2062	206.200 {4	In2306	Cts/S	1.221	0.0055	0.4526	1.225	1.217

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1065.7	0.69112	0.06485	1065.2	1066.2
In2306	230.606 {4	Cts/S	17793	26.092	0.14664	17774	17811
Y_2243	224.306 {4	Cts/S	23034	26.527	0.11517	23015	23053
Y_3600	360.073 {	Cts/S	201670	8197.3	4.0648	207460	195870
Y_3710	371.030 {	Cts/S	60516	445.15	0.73558	60202	60831

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=ICV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:45:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2415	0.0098	4.055	0.2484	0.2346
Al3082	308.215 {1	In2306	ppm	2.393	0.1013	4.235	2.321	2.465
As1890	189.042 {4	Y_2243	ppm	0.5057	0.0158	3.123	0.5169	0.4945
B_2496	249.678 {1	Y_3710	ppm	0.4889	0.02	4.087	0.4748	0.5031
Ba4554	455.403 {	Y_3710	ppm	0.4777	0.0208	4.349	0.463	0.4923
Be3130	313.042 {1	Y_3710	ppm	0.4826	0.0209	4.321	0.4678	0.4973
Ca3158	315.887 {1	In2306	ppm	12.05	0.4733	3.929	11.71	12.38
Ca3181	318.128 {1	In2306	ppm	11.97	0.4823	4.029	11.63	12.31
Cd2288	228.802 {4	Y_2243	ppm	0.5022	0.0084	1.677	0.5081	0.4962
Co2286	228.616 {4	In2306	ppm	0.4972	0.0082	1.64	0.503	0.4915
Cr2677	267.716 {1	Y_3600	ppm	0.4864	0.0188	3.863	0.4997	0.4732
Cu3247	324.754 {1	Y_3600	ppm	0.4833	0.0165	3.417	0.495	0.4716
Fe2404	240.488 {1	In2306	ppm	2.426	0.1031	4.25	2.353	2.499
K_7664	766.490 {	Y_3710	ppm	12.11	0.4616	3.813	11.78	12.43
K_7698	769.896 {	Y_3710	ppm	12.14	0.4823	3.974	11.8	12.48
Li6707	670.784 {	Y_3710	ppm	0.4824	0.0207	4.296	0.4677	0.497
Mg2790	279.079 {1	Y_3710	ppm	4.81	0.2	4.158	4.669	4.952
Mn2576	257.610 {1	Y_3600	ppm	0.4835	0.0195	4.036	0.4973	0.4697
Mn2576-2	257.610 {1	Y_3710	ppm	0.4811	0.0164	3.417	0.4695	0.4927
Mo2020	202.030 {4	Y_2243	ppm	0.5222	0.007	1.336	0.5271	0.5172
Na5895	589.592 {	Y_3710	ppm	12.07	0.4952	4.105	11.72	12.42
Na8183	818.326 {	Y_3710	ppm	12.05	0.458	3.801	11.72	12.37
Ni2316	231.604 {4	In2306	ppm	0.4943	0.0098	1.981	0.5012	0.4874
P_1782	178.284 {4	In2306	ppm	0.4939	0.0086	1.75	0.5	0.4877
Pb2203	220.353 {4	In2306	ppm	0.4949	0.007	1.41	0.4998	0.4899
S_1820	182.034 {4	Y_2243	ppm	-162.6	3.42	2.103	-165	-160.2
Sb2068	206.833 {4	Y_2243	ppm	0.5044	0.0069	1.363	0.5093	0.4996
Se1960	196.090 {4	Y_2243	ppm	0.5063	0.0058	1.147	0.5104	0.5022
Si2516	251.611 {1	Y_3710	ppm	0.9195	0.0315	3.424	0.8973	0.9418
Sn1899	189.989 {4	In2306	ppm	0.502	0.0091	1.814	0.5085	0.4956
Sr4215	421.552 {	Y_3710	ppm	0.2396	0.0103	4.312	0.2323	0.2469
Ti3349	334.904 {1	Y_3600	ppm	0.4854	0.0197	4.066	0.4993	0.4714
Tl1908	190.856 {4	In2306	ppm	0.5052	0.01	1.984	0.5123	0.4981
V_2924	292.402 {1	Y_3600	ppm	0.4878	0.0173	3.544	0.5	0.4755
Zn2062	206.200 {4	In2306	ppm	0.4932	0.0085	1.717	0.4992	0.4872

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1091.2	27.318	2.5034	1110.6	1071.9
In2306	230.606 {4	Cts/S	18432	228.21	1.2381	18270	18593
Y_2243	224.306 {4	Cts/S	22807	252.01	1.1049	22629	22986
Y_3600	360.073 {	Cts/S	208230	5711.8	2.743	204190	212270
Y_3710	371.030 {	Cts/S	61465	1479.5	2.407	62511	60418

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=LLICV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:47:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.006	0	0.253	0.006	0.006
Al3082	308.215	{1 In2306	ppm	0.0903	0.0168	18.64	0.1022	0.0784
As1890	189.042	{4 Y_2243	ppm	0.0109	0.0008	7.45	0.0104	0.0115
B_2496	249.678	{1 Y_3710	ppm	0.0134	0.0021	15.54	0.0149	0.0119
Ba4554	455.403	{ 7 Y_3710	ppm	0.01	0.0003	2.632	0.0098	0.0102
Be3130	313.042	{1 Y_3710	ppm	0.0049	0	0.2874	0.0049	0.005
Ca3158	315.887	{1 In2306	ppm	0.0968	0.0049	5.04	0.1002	0.0933
Ca3181	318.128	{1 In2306	ppm	0.1274	0.01	7.858	0.1203	0.1345
Cd2288	228.802	{4 Y_2243	ppm	0.0053	0.0005	10.43	0.0049	0.0056
Co2286	228.616	{4 In2306	ppm	0.01	0.0009	8.901	0.0093	0.0106
Cr2677	267.716	{1 Y_3600	ppm	0.0102	0.0002	1.619	0.0101	0.0103
Cu3247	324.754	{1 Y_3600	ppm	0.0101	0	0.1943	0.0101	0.01
Fe2404	240.488	{1 In2306	ppm	0.101	0.0016	1.549	0.0999	0.1021
K_7664	766.490	{ 4 Y_3710	ppm	0.6282	0.016	2.54	0.617	0.6395
K_7698	769.896	{ 4 Y_3710	ppm	0.5988	0.0325	5.431	0.5758	0.6218
Li6707	670.784	{ 8 Y_3710	ppm	0.0105	0.0005	5.112	0.0101	0.0109
Mg2790	279.079	{1 Y_3710	ppm	0.0955	0.0104	10.87	0.1028	0.0881
Mn2576	257.610	{1 Y_3600	ppm	0.0104	0.0003	2.415	0.0103	0.0106
Mn2576-2	257.610	{1 Y_3710	ppm	0.0105	0.0003	2.545	0.0103	0.0107
Mo2020	202.030	{4 Y_2243	ppm	0.0121	0.0013	10.89	0.0112	0.013
Na5895	589.592	{ 8 Y_3710	ppm	0.5892	0.0109	1.851	0.5815	0.5969
Na8183	818.326	{ 4 Y_3710	ppm	0.5833	0.031	5.321	0.5614	0.6053
Ni2316	231.604	{4 In2306	ppm	0.0098	0.0005	5.021	0.0094	0.0101
P_1782	178.284	{4 In2306	ppm	0.0046	0.0007	14.49	0.0042	0.0051
Pb2203	220.353	{4 In2306	ppm	0.0099	0	0.488	0.0098	0.0099
S_1820	182.034	{4 Y_2243	ppm	0.3516	0.1227	34.91	0.2648	0.4383
Sb2068	206.833	{4 Y_2243	ppm	0.0134	0.0003	2.411	0.0132	0.0137
Se1960	196.090	{4 Y_2243	ppm	0.0115	0.0016	13.85	0.0103	0.0126
Si2516	251.611	{1 Y_3710	ppm	0.0048	0.0013	26.91	0.0039	0.0057
Sn1899	189.989	{4 In2306	ppm	0.0102	0.001	10.24	0.0095	0.011
Sr4215	421.552	{ 8 Y_3710	ppm	0.005	0.0001	1.365	0.005	0.0051
Ti3349	334.904	{1 Y_3600	ppm	0.0102	0.0004	4.241	0.0099	0.0105
Tl1908	190.856	{4 In2306	ppm	0.011	0.0022	20.38	0.0094	0.0126
V_2924	292.402	{1 Y_3600	ppm	0.0096	0.0003	3.499	0.0099	0.0094
Zn2062	206.200	{4 In2306	ppm	0.0098	0.0008	8.103	0.0093	0.0104

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1094.8	5.0455	0.46087	1098.4	1091.2
In2306	230.606	{4 Cts/S	19914	674.68	3.3879	20391	19437
Y_2243	224.306	{4 Cts/S	23581	742.11	3.1471	24105	23056
Y_3600	360.073	{ 9 Cts/S	207070	4749	2.2934	210430	203710
Y_3710	371.030	{ 9 Cts/S	60835	193.63	0.31829	60972	60698

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=ICBIS
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:49:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0004	0.0001	19.51	0.0003	0.0005
Al3082	308.215	{1 In2306	ppm	-0.0107	0.0093	86.65	-0.0173	-0.0042
As1890	189.042	{4 Y_2243	ppm	-0.0002	0.0005	262.4	0.0002	-0.0006
B_2496	249.678	{1 Y_3710	ppm	0.0022	0.0027	124.6	0.0003	0.0041
Ba4554	455.403	{ 7 Y_3710	ppm	0	0	104.6	0	0
Be3130	313.042	{1 Y_3710	ppm	0	0	22900	0	0
Ca3158	315.887	{1 In2306	ppm	0.0018	0.0079	440	0.0074	-0.0038
Ca3181	318.128	{1 In2306	ppm	0.0052	0.0056	108.3	0.0092	0.0012
Cd2288	228.802	{4 Y_2243	ppm	0	0.0001	298.2	0	0.0001
Co2286	228.616	{4 In2306	ppm	0.0002	0	29.64	0.0002	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0003	0	14.66	0.0003	0.0003
Cu3247	324.754	{1 Y_3600	ppm	0.0002	0.0002	107.3	0.0003	0
Fe2404	240.488	{1 In2306	ppm	0.0057	0.0036	63.43	0.0031	0.0082
K_7664	766.490	{ 4 Y_3710	ppm	0.0105	0.0061	57.97	0.0062	0.0148
K_7698	769.896	{ 4 Y_3710	ppm	0.0335	0.0478	142.5	0.0673	-0.0002
Li6707	670.784	{ 8 Y_3710	ppm	-0.0005	0.0006	133.3	0	-0.0009
Mg2790	279.079	{1 Y_3710	ppm	-0.0167	0.0092	54.89	-0.0102	-0.0232
Mn2576	257.610	{1 Y_3600	ppm	0.0001	0.0001	73.68	0	0.0001
Mn2576-2	257.610	{1 Y_3710	ppm	0.0001	0.0007	540.1	0.0006	-0.0004
Mo2020	202.030	{4 Y_2243	ppm	0.0003	0.0001	19.76	0.0003	0.0002
Na5895	589.592	{ 8 Y_3710	ppm	-0.0093	0.0016	17.07	-0.0082	-0.0104
Na8183	818.326	{ 4 Y_3710	ppm	-0.0398	0.0372	93.33	-0.0135	-0.0661
Ni2316	231.604	{4 In2306	ppm	0.0004	0.0001	14.25	0.0004	0.0004
P_1782	178.284	{4 In2306	ppm	-0.0029	0.0007	24.31	-0.0034	-0.0024
Pb2203	220.353	{4 In2306	ppm	-0.0006	0.0003	48.76	-0.0009	-0.0004
S_1820	182.034	{4 Y_2243	ppm	0.506	0.1178	23.28	0.4227	0.5893
Sb2068	206.833	{4 Y_2243	ppm	0.0005	0.001	225.6	-0.0003	0.0012
Se1960	196.090	{4 Y_2243	ppm	-0.0011	0.0012	105.6	-0.0003	-0.0019
Si2516	251.611	{1 Y_3710	ppm	0.002	0.0112	548.1	-0.0059	0.01
Sn1899	189.989	{4 In2306	ppm	0.0001	0	43.1	0.0001	0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0	0.0001	189.4	0	-0.0001
Ti3349	334.904	{1 Y_3600	ppm	0.0001	0	16.91	0.0001	0.0002
Tl1908	190.856	{4 In2306	ppm	0.0003	0.0001	19.05	0.0004	0.0003
V_2924	292.402	{1 Y_3600	ppm	0	0.0003	617.8	-0.0001	0.0002
Zn2062	206.200	{4 In2306	ppm	-0.0002	0.0001	33.62	-0.0002	-0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1089.7	3.6	0.33036	1092.3	1087.2
In2306	230.606	{4 Cts/S	19233	40.541	0.21079	19261	19204
Y_2243	224.306	{4 Cts/S	22559	56.554	0.2507	22599	22519
Y_3600	360.073	{ 9 Cts/S	211720	988.55	0.46691	211020	212420
Y_3710	371.030	{ 9 Cts/S	60591	344.72	0.56894	60835	60347

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:52:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0008	0	0.8263	0.0008	0.0008
Al3082	308.215	{1 In2306	ppm	553.9	1.239	0.2237	554.8	553.1
As1890	189.042	{4 Y_2243	ppm	-0.0053	0.0003	5.28	-0.0051	-0.0055
B_2496	249.678	{1 Y_3710	ppm	0.0047	0.0014	30	0.0057	0.0037
Ba4554	455.403	{ ï Y_3710	ppm	0.0004	0.0001	19.05	0.0003	0.0004
Be3130	313.042	{1 Y_3710	ppm	0	0	378.7	0	0
Ca3158	315.887	{1 In2306	ppm	528.6	0.4565	0.0864	528.9	528.3
Ca3181	318.128	{1 In2306	ppm	517.4	2.874	0.5554	519.4	515.4
Cd2288	228.802	{4 Y_2243	ppm	0.0003	0.0001	17.8	0.0003	0.0003
Co2286	228.616	{4 In2306	ppm	-0.0005	0.0001	31.48	-0.0006	-0.0004
Cr2677	267.716	{1 Y_3600	ppm	0.0025	0.0005	20.74	0.0029	0.0022
Cu3247	324.754	{1 Y_3600	ppm	0.0043	0.0002	4.45	0.0045	0.0042
Fe2404	240.488	{1 In2306	ppm	202.5	0.91	0.4493	203.2	201.9
K_7664	766.490	{ ¿ Y_3710	ppm	-0.0105	0.0281	266.4	-0.0304	0.0093
K_7698	769.896	{ ¿ Y_3710	ppm	-0.2542	0.0541	21.3	-0.2159	-0.2925
Li6707	670.784	{ ß Y_3710	ppm	0.0164	0.0007	4.25	0.0169	0.0159
Mg2790	279.079	{1 Y_3710	ppm	522	0.7648	0.1465	522.5	521.4
Mn2576	257.610	{1 Y_3600	ppm	-0.0052	0.0002	4.694	-0.0053	-0.005
Mn2576-2	257.610	{1 Y_3710	ppm	-0.0046	0.0007	15.23	-0.0051	-0.0041
Mo2020	202.030	{4 Y_2243	ppm	-0.0014	0.0001	6.874	-0.0015	-0.0014
Na5895	589.592	{ ß Y_3710	ppm	0.015	0.0033	22.37	0.0173	0.0126
Na8183	818.326	{ ¿ Y_3710	ppm	0.7426	0.0948	12.77	0.6756	0.8097
Ni2316	231.604	{4 In2306	ppm	0.0239	0.0007	2.943	0.0234	0.0244
P_1782	178.284	{4 In2306	ppm	0.0001	0.0011	1747	0.0009	-0.0007
Pb2203	220.353	{4 In2306	ppm	0.0015	0.0007	45.18	0.0011	0.002
S_1820	182.034	{4 Y_2243	ppm	15.04	0.3827	2.544	14.77	15.31
Sb2068	206.833	{4 Y_2243	ppm	-0.0154	0.0013	8.274	-0.0163	-0.0145
Se1960	196.090	{4 Y_2243	ppm	-0.0046	0.0011	24.7	-0.0054	-0.0038
Si2516	251.611	{1 Y_3710	ppm	0.0006	0.0058	923.6	0.0047	-0.0034
Sn1899	189.989	{4 In2306	ppm	0.0032	0.0002	5.52	0.0033	0.003
Sr4215	421.552	{ ß Y_3710	ppm	0.0023	0	1.514	0.0023	0.0023
Ti3349	334.904	{1 Y_3600	ppm	0.0031	0.0003	8.825	0.0029	0.0033
Tl1908	190.856	{4 In2306	ppm	-0.0074	0.0041	55.07	-0.0045	-0.0103
V_2924	292.402	{1 Y_3600	ppm	-0.0034	0.0001	2.823	-0.0033	-0.0035
Zn2062	206.200	{4 In2306	ppm	0.0094	0	0.4158	0.0094	0.0093

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	946.59	7.2342	0.76423	941.48	951.71
In2306	230.606	{4 Cts/S	13601	191.56	1.4084	13737	13466
Y_2243	224.306	{4 Cts/S	19939	304.68	1.528	20155	19724
Y_3600	360.073	{ ¶ Cts/S	183430	3831.2	2.0887	180720	186140
Y_3710	371.030	{ ¶ Cts/S	58221	262.29	0.4505	58036	58407

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:54:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5538	0.0005	0.0949	0.5534	0.5541
Al3082	308.215 {1	In2306	ppm	557.5	11.75	2.108	565.8	549.2
As1890	189.042 {4	Y_2243	ppm	1.036	0.0026	0.2483	1.034	1.038
B_2496	249.678 {1	Y_3710	ppm	0.9661	0.0063	0.6505	0.9705	0.9616
Ba4554	455.403 {	Y_3710	ppm	0.9779	0.0159	1.626	0.9891	0.9666
Be3130	313.042 {1	Y_3710	ppm	0.4775	0.0072	1.513	0.4826	0.4724
Ca3158	315.887 {1	In2306	ppm	541.2	9.163	1.693	547.7	534.7
Ca3181	318.128 {1	In2306	ppm	518.3	11.08	2.138	526.1	510.5
Cd2288	228.802 {4	Y_2243	ppm	0.5205	0.0059	1.133	0.5163	0.5247
Co2286	228.616 {4	In2306	ppm	1.013	0.0112	1.108	1.006	1.021
Cr2677	267.716 {1	Y_3600	ppm	0.9245	0.0061	0.6618	0.9202	0.9288
Cu3247	324.754 {1	Y_3600	ppm	1.055	0.0027	0.2552	1.053	1.057
Fe2404	240.488 {1	In2306	ppm	209.1	4.287	2.05	212.2	206.1
K_7664	766.490 {	Y_3710	ppm	10.14	0.1739	1.715	10.27	10.02
K_7698	769.896 {	Y_3710	ppm	10.06	0.1896	1.884	10.2	9.928
Li6707	670.784 {	Y_3710	ppm	1.057	0.0171	1.614	1.069	1.045
Mg2790	279.079 {1	Y_3710	ppm	516.6	7.928	1.535	522.2	511
Mn2576	257.610 {1	Y_3600	ppm	0.966	0.005	0.5191	0.9625	0.9696
Mn2576-2	257.610 {1	Y_3710	ppm	0.9716	0.0154	1.586	0.9824	0.9607
Mo2020	202.030 {4	Y_2243	ppm	0.9654	0.0097	1.001	0.9585	0.9722
Na5895	589.592 {	Y_3710	ppm	10.3	0.1696	1.646	10.42	10.18
Na8183	818.326 {	Y_3710	ppm	10.9	0.0948	0.8693	10.83	10.97
Ni2316	231.604 {4	In2306	ppm	1.005	0.01	0.9962	0.9982	1.012
P_1782	178.284 {4	In2306	ppm	1.156	0.0106	0.9178	1.149	1.164
Pb2203	220.353 {4	In2306	ppm	0.992	0.0216	2.177	0.9768	1.007
S_1820	182.034 {4	Y_2243	ppm	14.52	0.0629	0.4327	14.57	14.48
Sb2068	206.833 {4	Y_2243	ppm	0.9741	0.0181	1.856	0.9613	0.9868
Se1960	196.090 {4	Y_2243	ppm	1.024	0.0181	1.764	1.011	1.036
Si2516	251.611 {1	Y_3710	ppm	0.9239	0.0074	0.7956	0.9291	0.9187
Sn1899	189.989 {4	In2306	ppm	1.046	0.011	1.054	1.038	1.054
Sr4215	421.552 {	Y_3710	ppm	0.501	0.0069	1.383	0.5059	0.4961
Ti3349	334.904 {1	Y_3600	ppm	0.9403	0.003	0.3219	0.9382	0.9424
Tl1908	190.856 {4	In2306	ppm	0.9003	0.005	0.555	0.8968	0.9039
V_2924	292.402 {1	Y_3600	ppm	0.9176	0.0003	0.0282	0.9174	0.9178
Zn2062	206.200 {4	In2306	ppm	1.057	0.0117	1.103	1.049	1.065

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	954.65	16.064	1.6827	943.29	966.01
In2306	230.606 {4	Cts/S	13709	138.53	1.0105	13807	13611
Y_2243	224.306 {4	Cts/S	20114	217.77	1.0827	20268	19960
Y_3600	360.073 {	Cts/S	181390	317.64	0.17512	181610	181160
Y_3710	371.030 {	Cts/S	59348	773.22	1.3029	58801	59894

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:56:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2469	0.0032	1.294	0.2447	0.2492
Al3082	308.215 {1	In2306	ppm	2.536	0.1291	5.091	2.628	2.445
As1890	189.042 {4	Y_2243	ppm	0.5071	0.0047	0.931	0.5037	0.5104
B_2496	249.678 {1	Y_3710	ppm	0.5002	0.0246	4.921	0.5176	0.4827
Ba4554	455.403 {	Y_3710	ppm	0.4966	0.0202	4.072	0.5108	0.4823
Be3130	313.042 {1	Y_3710	ppm	0.5024	0.0214	4.265	0.5175	0.4872
Ca3158	315.887 {1	In2306	ppm	13.3	0.6132	4.61	13.74	12.87
Ca3181	318.128 {1	In2306	ppm	12.4	0.592	4.773	12.82	11.98
Cd2288	228.802 {4	Y_2243	ppm	0.4972	0.0046	0.9262	0.4939	0.5004
Co2286	228.616 {4	In2306	ppm	0.4825	0.0022	0.4527	0.481	0.4841
Cr2677	267.716 {1	Y_3600	ppm	0.4844	0.0057	1.183	0.4803	0.4884
Cu3247	324.754 {1	Y_3600	ppm	0.487	0.0084	1.729	0.481	0.4929
Fe2404	240.488 {1	In2306	ppm	2.544	0.1233	4.845	2.632	2.457
K_7664	766.490 {	Y_3710	ppm	12.39	0.527	4.255	12.76	12.01
K_7698	769.896 {	Y_3710	ppm	12.67	0.5675	4.479	13.07	12.27
Li6707	670.784 {	Y_3710	ppm	0.5052	0.0232	4.6	0.5217	0.4888
Mg2790	279.079 {1	Y_3710	ppm	5.029	0.2716	5.4	5.221	4.837
Mn2576	257.610 {1	Y_3600	ppm	0.5101	0.0078	1.52	0.5046	0.5156
Mn2576-2	257.610 {1	Y_3710	ppm	0.5357	0.025	4.664	0.5534	0.5181
Mo2020	202.030 {4	Y_2243	ppm	0.5279	0.0051	0.9731	0.5243	0.5316
Na5895	589.592 {	Y_3710	ppm	12.53	0.5489	4.382	12.91	12.14
Na8183	818.326 {	Y_3710	ppm	12.72	0.5634	4.429	13.12	12.32
Ni2316	231.604 {4	In2306	ppm	0.4716	0.0021	0.4547	0.4701	0.4731
P_1782	178.284 {4	In2306	ppm	0.4812	0.0028	0.5878	0.4792	0.4832
Pb2203	220.353 {4	In2306	ppm	0.4889	0.002	0.4038	0.4875	0.4903
S_1820	182.034 {4	Y_2243	ppm	-166.2	1.571	0.9453	-165.1	-167.3
Sb2068	206.833 {4	Y_2243	ppm	0.5041	0.0072	1.424	0.499	0.5092
Se1960	196.090 {4	Y_2243	ppm	0.5135	0.0066	1.276	0.5089	0.5181
Si2516	251.611 {1	Y_3710	ppm	0.9276	0.0311	3.355	0.9496	0.9056
Sn1899	189.989 {4	In2306	ppm	0.4995	0.0024	0.485	0.4978	0.5012
Sr4215	421.552 {	Y_3710	ppm	0.2569	0.0106	4.14	0.2644	0.2494
Ti3349	334.904 {1	Y_3600	ppm	0.4739	0.0052	1.101	0.4702	0.4775
Tl1908	190.856 {4	In2306	ppm	0.4837	0.0037	0.7632	0.4811	0.4863
V_2924	292.402 {1	Y_3600	ppm	0.4761	0.0052	1.091	0.4725	0.4798
Zn2062	206.200 {4	In2306	ppm	0.4787	0.0006	0.1172	0.4783	0.4791

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1058.2	37.696	3.5622	1031.6	1084.9
In2306	230.606 {4	Cts/S	18667	99.514	0.53311	18737	18596
Y_2243	224.306 {4	Cts/S	22677	174.07	0.76761	22800	22554
Y_3600	360.073 {	Cts/S	209140	1974.6	0.94416	210530	207740
Y_3710	371.030 {	Cts/S	59908	2245.3	3.748	58320	61495

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 7:59:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0055	0.0004	6.616	0.0057	0.0052
Al3082	308.215 {1	In2306	ppm	0.0897	0.0214	23.84	0.1048	0.0746
As1890	189.042 {4	Y_2243	ppm	0.0104	0.0012	11.96	0.0095	0.0113
B_2496	249.678 {1	Y_3710	ppm	0.0123	0.0013	10.93	0.0133	0.0114
Ba4554	455.403 {	Y_3710	ppm	0.01	0.0001	1.353	0.0101	0.0099
Be3130	313.042 {1	Y_3710	ppm	0.0049	0	0.7871	0.0049	0.0049
Ca3158	315.887 {1	In2306	ppm	0.116	0.0016	1.347	0.1149	0.1171
Ca3181	318.128 {1	In2306	ppm	0.1297	0.0142	10.95	0.1398	0.1197
Cd2288	228.802 {4	Y_2243	ppm	0.0054	0.0003	4.856	0.0052	0.0056
Co2286	228.616 {4	In2306	ppm	0.01	0.0002	1.581	0.0098	0.0101
Cr2677	267.716 {1	Y_3600	ppm	0.01	0.0001	0.9761	0.01	0.0101
Cu3247	324.754 {1	Y_3600	ppm	0.0119	0.0001	0.5582	0.0118	0.0119
Fe2404	240.488 {1	In2306	ppm	0.107	0.001	0.9114	0.1077	0.1063
K_7664	766.490 {	Y_3710	ppm	0.6027	0.0048	0.7915	0.606	0.5993
K_7698	769.896 {	Y_3710	ppm	0.6113	0.0294	4.809	0.5905	0.632
Li6707	670.784 {	Y_3710	ppm	0.0104	0.0009	8.796	0.0111	0.0098
Mg2790	279.079 {1	Y_3710	ppm	0.0991	0.0017	1.741	0.0979	0.1003
Mn2576	257.610 {1	Y_3600	ppm	0.0107	0.0001	0.4887	0.0107	0.0107
Mn2576-2	257.610 {1	Y_3710	ppm	0.0109	0.0013	11.76	0.0118	0.01
Mo2020	202.030 {4	Y_2243	ppm	0.0126	0.0007	5.378	0.0121	0.0131
Na5895	589.592 {	Y_3710	ppm	0.5927	0.0005	0.0845	0.5923	0.593
Na8183	818.326 {	Y_3710	ppm	0.4528	0.2589	57.18	0.2697	0.6358
Ni2316	231.604 {4	In2306	ppm	0.0099	0.0002	2.412	0.0097	0.01
P_1782	178.284 {4	In2306	ppm	0.0061	0.0018	30.26	0.0048	0.0074
Pb2203	220.353 {4	In2306	ppm	0.0097	0.001	10.05	0.009	0.0104
S_1820	182.034 {4	Y_2243	ppm	0.2332	0.0458	19.65	0.2008	0.2656
Sb2068	206.833 {4	Y_2243	ppm	0.0127	0.0014	10.94	0.0118	0.0137
Se1960	196.090 {4	Y_2243	ppm	0.0115	0.0012	10.51	0.0124	0.0107
Si2516	251.611 {1	Y_3710	ppm	0.0044	0.0006	14.39	0.0039	0.0048
Sn1899	189.989 {4	In2306	ppm	0.0102	0.001	10.13	0.0095	0.011
Sr4215	421.552 {	Y_3710	ppm	0.0051	0	0.333	0.0051	0.0051
Ti3349	334.904 {1	Y_3600	ppm	0.01	0	0.2437	0.0101	0.01
Tl1908	190.856 {4	In2306	ppm	0.0095	0.0009	9.43	0.0089	0.0102
V_2924	292.402 {1	Y_3600	ppm	0.0098	0.0001	1.401	0.0099	0.0097
Zn2062	206.200 {4	In2306	ppm	0.0098	0.0002	1.857	0.0097	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1098.9	3.9348	0.35806	1096.1	1101.7
In2306	230.606 {4	Cts/S	19604	103.9	0.53	19530	19677
Y_2243	224.306 {4	Cts/S	22791	101.28	0.44438	22720	22863
Y_3600	360.073 {	Cts/S	209630	136.36	0.06505	209540	209730
Y_3710	371.030 {	Cts/S	61668	626.97	1.0167	61225	62112

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:01:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0001	16.4	0.0006	0.0008
Al3082	308.215 {1	In2306	ppm	-0.0056	0.0067	120.6	-0.0104	-0.0008
As1890	189.042 {4	Y_2243	ppm	-0.0008	0	5.077	-0.0008	-0.0009
B_2496	249.678 {1	Y_3710	ppm	0.0005	0.0003	52.51	0.0007	0.0003
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	49.42	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	130.3	0	0
Ca3158	315.887 {1	In2306	ppm	0.0062	0.0056	90.22	0.0102	0.0022
Ca3181	318.128 {1	In2306	ppm	0.0266	0.0032	12.01	0.0244	0.0289
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0.0001	103.9	0	0.0001
Co2286	228.616 {4	In2306	ppm	0	0	82.68	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	5.958	0.0002	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0012	0.0003	22.78	0.0014	0.001
Fe2404	240.488 {1	In2306	ppm	0.0066	0.0022	33.22	0.0081	0.005
K_7664	766.490 {	Y_3710	ppm	0.0194	0.0227	116.9	0.0354	0.0034
K_7698	769.896 {	Y_3710	ppm	0.0083	0.0009	10.55	0.0089	0.0077
Li6707	670.784 {	Y_3710	ppm	0.0001	0.0005	405.1	0.0005	-0.0002
Mg2790	279.079 {1	Y_3710	ppm	0.0065	0.0038	58.53	0.0038	0.0091
Mn2576	257.610 {1	Y_3600	ppm	0.0001	0	17.51	0.0001	0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0006	0.0001	10.35	0.0006	0.0005
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	67.79	0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	-0.0107	0.0043	40.11	-0.0137	-0.0076
Na8183	818.326 {	Y_3710	ppm	0.1475	0.0141	9.577	0.1574	0.1375
Ni2316	231.604 {4	In2306	ppm	0.0003	0.0001	47.94	0.0002	0.0004
P_1782	178.284 {4	In2306	ppm	-0.0042	0	0.5409	-0.0042	-0.0042
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0001	12.09	0.0005	0.0005
S_1820	182.034 {4	Y_2243	ppm	0.3046	0.0062	2.046	0.3002	0.309
Sb2068	206.833 {4	Y_2243	ppm	0.0005	0.0003	63.07	0.0003	0.0007
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0.0014	228.4	-0.0017	0.0004
Si2516	251.611 {1	Y_3710	ppm	-0.0007	0.0006	82.91	-0.0011	-0.0003
Sn1899	189.989 {4	In2306	ppm	-0.0004	0.0001	23.72	-0.0004	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	14.23	0	0
Ti3349	334.904 {1	Y_3600	ppm	0.0001	0.0002	166.8	0	0.0003
Tl1908	190.856 {4	In2306	ppm	-0.0002	0.0002	91.63	-0.0003	-0.0001
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0001	53.23	-0.0001	-0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0002	0.0001	32.19	-0.0003	-0.0002

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1076	0.55202	0.0513	1075.6	1076.4
In2306	230.606 {4	Cts/S	19485	39.632	0.2034	19513	19457
Y_2243	224.306 {4	Cts/S	22529	0.09485	0.00042	22529	22529
Y_3600	360.073 {	Cts/S	209850	3834.1	1.827	207140	212560
Y_3710	371.030 {	Cts/S	60449	11.104	0.01837	60456	60441

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=mb 600-87910/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:03:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0002	0.0004	166.5	0	0.0005
Al3082	308.215	{1 In2306	ppm	-0.0019	0.0083	434.9	-0.0078	0.004
As1890	189.042	{4 Y_2243	ppm	-0.001	0.0012	121.4	-0.0018	-0.0001
B_2496	249.678	{1 Y_3710	ppm	0.0052	0.0013	24.78	0.0043	0.0061
Ba4554	455.403	{ ï Y_3710	ppm	0.0001	0.0001	47.07	0.0002	0.0001
Be3130	313.042	{1 Y_3710	ppm	0	0	98.71	0	0
Ca3158	315.887	{1 In2306	ppm	0.0067	0.0032	48.43	0.0089	0.0044
Ca3181	318.128	{1 In2306	ppm	0.039	0.0102	26.14	0.0462	0.0318
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	31.8	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0	0	19.37	0	0
Cr2677	267.716	{1 Y_3600	ppm	0	0	108.2	0	-0.0001
Cu3247	324.754	{1 Y_3600	ppm	0.0026	0.0004	13.53	0.0024	0.0029
Fe2404	240.488	{1 In2306	ppm	0.0058	0.0011	18.88	0.005	0.0066
K_7664	766.490	{ ¿ Y_3710	ppm	0.0192	0.0125	65.17	0.0281	0.0104
K_7698	769.896	{ ¿ Y_3710	ppm	0.0713	0.0132	18.48	0.0806	0.062
Li6707	670.784	{ ß Y_3710	ppm	-0.0007	0.0005	74.89	-0.0003	-0.0011
Mg2790	279.079	{1 Y_3710	ppm	0.0008	0.013	1535	-0.0084	0.0101
Mn2576	257.610	{1 Y_3600	ppm	0.0001	0.0001	122.6	0.0001	0
Mn2576-2	257.610	{1 Y_3710	ppm	0.0002	0.0002	75.91	0.0001	0.0003
Mo2020	202.030	{4 Y_2243	ppm	-0.0001	0.0001	209.4	0	-0.0001
Na5895	589.592	{ ß Y_3710	ppm	-0.0034	0.0026	77.69	-0.0053	-0.0015
Na8183	818.326	{ ¿ Y_3710	ppm	0.0419	0.1683	401.9	-0.0771	0.1608
Ni2316	231.604	{4 In2306	ppm	0.0005	0.0001	28.64	0.0006	0.0004
P_1782	178.284	{4 In2306	ppm	-0.0034	0.0008	24.11	-0.0028	-0.004
Pb2203	220.353	{4 In2306	ppm	0.0008	0.0007	79.16	0.0013	0.0004
S_1820	182.034	{4 Y_2243	ppm	-0.68	0.1043	15.34	-0.7537	-0.6062
Sb2068	206.833	{4 Y_2243	ppm	0.0003	0.0008	246.4	0.0009	-0.0002
Se1960	196.090	{4 Y_2243	ppm	-0.001	0.0001	14.13	-0.0009	-0.0011
Si2516	251.611	{1 Y_3710	ppm	0.0019	0.0024	130.6	0.0001	0.0036
Sn1899	189.989	{4 In2306	ppm	-0.0001	0.0006	632.1	-0.0005	0.0003
Sr4215	421.552	{ ß Y_3710	ppm	-0.0001	0	45.23	-0.0001	0
Ti3349	334.904	{1 Y_3600	ppm	-0.0001	0.0001	133.9	0	-0.0002
Tl1908	190.856	{4 In2306	ppm	-0.0017	0.0009	53.72	-0.001	-0.0023
V_2924	292.402	{1 Y_3600	ppm	0.0002	0.0001	75.43	0.0002	0.0001
Zn2062	206.200	{4 In2306	ppm	0.0093	0.0001	1.512	0.0094	0.0092

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1082.8	4.0684	0.37571	1085.7	1080
In2306	230.606	{4 Cts/S	19588	76.8	0.39208	19534	19642
Y_2243	224.306	{4 Cts/S	22571	53.168	0.23555	22534	22609
Y_3600	360.073	{ ° Cts/S	210080	2929	1.3943	208010	212150
Y_3710	371.030	{ ° Cts/S	61269	313.65	0.51193	61490	61047

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87910/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:06:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5159	0.0011	0.2162	0.5151	0.5167
Al3082	308.215 {1	In2306	ppm	10.25	0.0763	0.744	10.2	10.31
As1890	189.042 {4	Y_2243	ppm	1.046	0.0002	0.0184	1.046	1.046
B_2496	249.678 {1	Y_3710	ppm	1.002	0.0174	1.736	0.9895	1.014
Ba4554	455.403 {	Y_3710	ppm	1.021	0.0155	1.515	1.011	1.032
Be3130	313.042 {1	Y_3710	ppm	0.5084	0.0054	1.063	0.5046	0.5122
Ca3158	315.887 {1	In2306	ppm	10.89	0.0703	0.6458	10.84	10.94
Ca3181	318.128 {1	In2306	ppm	10.05	0.0126	0.1252	10.04	10.06
Cd2288	228.802 {4	Y_2243	ppm	0.5131	0	0.0009	0.5131	0.5131
Co2286	228.616 {4	In2306	ppm	0.9891	0.0009	0.0889	0.9885	0.9897
Cr2677	267.716 {1	Y_3600	ppm	0.9909	0.0002	0.0226	0.991	0.9907
Cu3247	324.754 {1	Y_3600	ppm	1.028	0.0008	0.0781	1.028	1.029
Fe2404	240.488 {1	In2306	ppm	10.26	0.0527	0.5137	10.22	10.3
K_7664	766.490 {	Y_3710	ppm	10.13	0.1435	1.416	10.03	10.23
K_7698	769.896 {	Y_3710	ppm	10.28	0.2425	2.359	10.11	10.46
Li6707	670.784 {	Y_3710	ppm	0.5216	0.0105	2.006	0.5142	0.529
Mg2790	279.079 {1	Y_3710	ppm	9.952	0.0961	0.966	9.884	10.02
Mn2576	257.610 {1	Y_3600	ppm	1.061	0.0074	0.6961	1.056	1.066
Mn2576-2	257.610 {1	Y_3710	ppm	1.082	0.0133	1.228	1.073	1.092
Mo2020	202.030 {4	Y_2243	ppm	1.091	0.0024	0.2243	1.093	1.09
Na5895	589.592 {	Y_3710	ppm	10.28	0.1703	1.656	10.16	10.4
Na8183	818.326 {	Y_3710	ppm	10.38	0.1306	1.257	10.29	10.48
Ni2316	231.604 {4	In2306	ppm	0.9581	0.0019	0.1977	0.9567	0.9594
P_1782	178.284 {4	In2306	ppm	-0.0027	0.0002	7.577	-0.0026	-0.0028
Pb2203	220.353 {4	In2306	ppm	1.005	0.0008	0.0829	1.004	1.005
S_1820	182.034 {4	Y_2243	ppm	0.0026	0.2985	11290	-0.2084	0.2137
Sb2068	206.833 {4	Y_2243	ppm	1.023	0.0037	0.3601	1.026	1.021
Se1960	196.090 {4	Y_2243	ppm	1.063	0.0041	0.3885	1.066	1.06
Si2516	251.611 {1	Y_3710	ppm	0.9293	0.0108	1.159	0.9217	0.9369
Sn1899	189.989 {4	In2306	ppm	1.02	0.0014	0.1336	1.019	1.021
Sr4215	421.552 {	Y_3710	ppm	0.5253	0.0086	1.639	0.5192	0.5314
Ti3349	334.904 {1	Y_3600	ppm	0.9774	0.0009	0.0904	0.9768	0.978
Tl1908	190.856 {4	In2306	ppm	0.9896	0.0002	0.0251	0.9898	0.9894
V_2924	292.402 {1	Y_3600	ppm	0.974	0.0015	0.1534	0.9729	0.975
Zn2062	206.200 {4	In2306	ppm	0.9716	0.0039	0.4048	0.9688	0.9744

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1063	2.3188	0.21815	1064.6	1061.3
In2306	230.606 {4	Cts/S	18386	34.833	0.18945	18411	18362
Y_2243	224.306 {4	Cts/S	22351	8.3734	0.03746	22345	22357
Y_3600	360.073 {	Cts/S	205700	391.67	0.19041	205420	205970
Y_3710	371.030 {	Cts/S	61145	417.62	0.68299	61440	60850

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=lb 600-87852/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:08:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0004	0.0002	58.58	0.0005	0.0002
Al3082	308.215	{1 In2306	ppm	-0.0091	0.002	21.65	-0.0105	-0.0077
As1890	189.042	{4 Y_2243	ppm	0.0035	0.004	112.7	0.0007	0.0064
B_2496	249.678	{1 Y_3710	ppm	0.0064	0	0.4289	0.0064	0.0065
Ba4554	455.403	{ 7 Y_3710	ppm	0.0004	0.0001	15.5	0.0004	0.0003
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	32.39	0	0.0001
Ca3158	315.887	{1 In2306	ppm	0.855	0.0002	0.0197	0.8551	0.8549
Ca3181	318.128	{1 In2306	ppm	0.8038	0.0276	3.432	0.8233	0.7843
Cd2288	228.802	{4 Y_2243	ppm	0.0016	0.0021	131.5	0.0001	0.003
Co2286	228.616	{4 In2306	ppm	0.0033	0.0044	132.8	0.0002	0.0065
Cr2677	267.716	{1 Y_3600	ppm	0.0004	0.0001	18.7	0.0005	0.0004
Cu3247	324.754	{1 Y_3600	ppm	0.0022	0.0002	10.15	0.0023	0.002
Fe2404	240.488	{1 In2306	ppm	0.006	0.0009	15.57	0.0066	0.0053
K_7664	766.490	{ 4 Y_3710	ppm	0.0283	0.0266	93.85	0.0471	0.0095
K_7698	769.896	{ 4 Y_3710	ppm	0.01	0.0098	98.05	0.017	0.0031
Li6707	670.784	{ 8 Y_3710	ppm	-0.0013	0.0008	62.14	-0.0019	-0.0007
Mg2790	279.079	{1 Y_3710	ppm	0.004	0.0127	320.8	0.013	-0.005
Mn2576	257.610	{1 Y_3600	ppm	0	0	102.4	0	0.0001
Mn2576-2	257.610	{1 Y_3710	ppm	0.0002	0	2.915	0.0002	0.0002
Mo2020	202.030	{4 Y_2243	ppm	0.0074	0.0062	83.76	0.003	0.0118
Na5895	589.592	{ 8 Y_3710	ppm	142.8	3.851	2.698	145.5	140
Na8183	818.326	{ 4 Y_3710	ppm	149.8	0.4242	0.2831	149.5	150.1
Ni2316	231.604	{4 In2306	ppm	0.0035	0.0046	130.9	0.0003	0.0068
P_1782	178.284	{4 In2306	ppm	0.1808	0.0067	3.697	0.1761	0.1855
Pb2203	220.353	{4 In2306	ppm	0.0015	0.0025	168.5	-0.0003	0.0032
S_1820	182.034	{4 Y_2243	ppm	-0.103	0.2459	238.8	-0.2768	0.0709
Sb2068	206.833	{4 Y_2243	ppm	0.0071	0.0058	82.16	0.003	0.0112
Se1960	196.090	{4 Y_2243	ppm	0.0022	0.0041	192	-0.0008	0.0051
Si2516	251.611	{1 Y_3710	ppm	-0.0026	0.0023	87.71	-0.0043	-0.001
Sn1899	189.989	{4 In2306	ppm	0.0052	0.006	116.5	0.0009	0.0094
Sr4215	421.552	{ 8 Y_3710	ppm	0.0004	0	4.264	0.0004	0.0004
Ti3349	334.904	{1 Y_3600	ppm	0.0007	0.0002	22.81	0.0006	0.0008
Tl1908	190.856	{4 In2306	ppm	0.0062	0.0063	101.8	0.0017	0.0107
V_2924	292.402	{1 Y_3600	ppm	-0.0003	0	2.537	-0.0003	-0.0002
Zn2062	206.200	{4 In2306	ppm	0.0133	0.0048	36.05	0.0099	0.0167

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1066.1	11.69	1.0966	1057.8	1074.4
In2306	230.606	{4 Cts/S	16832	574.01	3.4103	17238	16426
Y_2243	224.306	{4 Cts/S	20954	693.59	3.3101	21444	20464
Y_3600	360.073	{ 9 Cts/S	199380	3761.5	1.8865	202040	196720
Y_3710	371.030	{ 9 Cts/S	61050	398.02	0.65196	60768	61331

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60702-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:11:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0009	0.0003	30.45	0.0011	0.0007
Al3082	308.215	{1 In2306	ppm	-0.015	0.0004	2.411	-0.0152	-0.0147
As1890	189.042	{4 Y_2243	ppm	-0.0008	0.0006	74.25	-0.0004	-0.0012
B_2496	249.678	{1 Y_3710	ppm	0.0418	0.003	7.193	0.0397	0.0439
Ba4554	455.403	{ 7 Y_3710	ppm	0.0837	0.0006	0.6972	0.0833	0.0841
Be3130	313.042	{1 Y_3710	ppm	0	0	268.2	0	0
Ca3158	315.887	{1 In2306	ppm	45.64	0.0857	0.1878	45.71	45.58
Ca3181	318.128	{1 In2306	ppm	41.9	0.0011	0.0026	41.9	41.9
Cd2288	228.802	{4 Y_2243	ppm	0.0027	0.0001	3.492	0.0028	0.0027
Co2286	228.616	{4 In2306	ppm	0.0011	0	4	0.001	0.0011
Cr2677	267.716	{1 Y_3600	ppm	0.0009	0.0001	13.18	0.0009	0.001
Cu3247	324.754	{1 Y_3600	ppm	0.0051	0.0002	4.493	0.005	0.0053
Fe2404	240.488	{1 In2306	ppm	0.009	0.0045	49.67	0.0058	0.0121
K_7664	766.490	{ 4 Y_3710	ppm	0.5739	0.0053	0.921	0.5776	0.5702
K_7698	769.896	{ 4 Y_3710	ppm	0.5929	0.0075	1.262	0.5876	0.5982
Li6707	670.784	{ 8 Y_3710	ppm	0.0017	0.0006	35.38	0.0021	0.0013
Mg2790	279.079	{1 Y_3710	ppm	0.9115	0.0208	2.284	0.9262	0.8968
Mn2576	257.610	{1 Y_3600	ppm	0.0719	0.0002	0.2677	0.072	0.0718
Mn2576-2	257.610	{1 Y_3710	ppm	0.0727	0.0002	0.3407	0.0728	0.0725
Mo2020	202.030	{4 Y_2243	ppm	0.0004	0	6.63	0.0004	0.0004
Na5895	589.592	{ 8 Y_3710	ppm	146.7	0.0766	0.0522	146.6	146.7
Na8183	818.326	{ 4 Y_3710	ppm	149.2	0.3835	0.257	148.9	149.5
Ni2316	231.604	{4 In2306	ppm	0.003	0.0001	4.257	0.0029	0.0031
P_1782	178.284	{4 In2306	ppm	0.0065	0.0004	6.003	0.0062	0.0068
Pb2203	220.353	{4 In2306	ppm	11.83	0.0802	0.6779	11.88	11.77
S_1820	182.034	{4 Y_2243	ppm	-52.92	0.4245	0.8021	-53.22	-52.62
Sb2068	206.833	{4 Y_2243	ppm	0.0016	0.0009	52.92	0.0022	0.001
Se1960	196.090	{4 Y_2243	ppm	0.0006	0.0003	58.67	0.0008	0.0003
Si2516	251.611	{1 Y_3710	ppm	0.8632	0.0016	0.1894	0.8644	0.8621
Sn1899	189.989	{4 In2306	ppm	0.0005	0.0007	153.6	0	0.001
Sr4215	421.552	{ 8 Y_3710	ppm	0.1042	0	0.0468	0.1042	0.1043
Ti3349	334.904	{1 Y_3600	ppm	0.0004	0.0001	23.74	0.0003	0.0004
Tl1908	190.856	{4 In2306	ppm	0.0008	0.0005	55.28	0.0005	0.0012
V_2924	292.402	{1 Y_3600	ppm	-0.0008	0.0001	14.14	-0.0009	-0.0007
Zn2062	206.200	{4 In2306	ppm	0.2298	0.0011	0.4645	0.2305	0.229

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1043	1.9408	0.18607	1041.7	1044.4
In2306	230.606	{4 Cts/S	16828	102.22	0.60743	16755	16900
Y_2243	224.306	{4 Cts/S	21158	127.17	0.60106	21068	21247
Y_3600	360.073	{ 9 Cts/S	193500	61.221	0.03164	193450	193540
Y_3710	371.030	{ 9 Cts/S	59988	86.083	0.1435	59927	60049

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60702-a-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:13:27
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5317	0.0015	0.291	0.5328	0.5306
Al3082	308.215	{1 In2306	ppm	10.32	0.137	1.327	10.42	10.23
As1890	189.042	{4 Y_2243	ppm	1.087	0.0029	0.2656	1.085	1.089
B_2496	249.678	{1 Y_3710	ppm	1.038	0.0036	0.3421	1.036	1.041
Ba4554	455.403	{ 7 Y_3710	ppm	1.094	0.0007	0.0598	1.095	1.094
Be3130	313.042	{1 Y_3710	ppm	0.5092	0.0015	0.3034	0.5081	0.5103
Ca3158	315.887	{1 In2306	ppm	55.74	0.0527	0.0945	55.7	55.77
Ca3181	318.128	{1 In2306	ppm	50.99	0.096	0.1884	51.05	50.92
Cd2288	228.802	{4 Y_2243	ppm	0.5261	0.0015	0.2773	0.5271	0.5251
Co2286	228.616	{4 In2306	ppm	1.02	0.0056	0.5526	1.024	1.016
Cr2677	267.716	{1 Y_3600	ppm	0.9855	0.0059	0.5985	0.9897	0.9814
Cu3247	324.754	{1 Y_3600	ppm	1.038	0.0002	0.0155	1.038	1.038
Fe2404	240.488	{1 In2306	ppm	10.21	0.0063	0.062	10.21	10.2
K_7664	766.490	{ 4 Y_3710	ppm	10.84	0.0382	0.3528	10.87	10.81
K_7698	769.896	{ 4 Y_3710	ppm	11.12	0.0001	0.0013	11.12	11.12
Li6707	670.784	{ 8 Y_3710	ppm	0.5231	0.0023	0.4306	0.5247	0.5215
Mg2790	279.079	{1 Y_3710	ppm	10.6	0.041	0.3864	10.57	10.63
Mn2576	257.610	{1 Y_3600	ppm	1.125	0.0025	0.2236	1.127	1.123
Mn2576-2	257.610	{1 Y_3710	ppm	1.147	0.0088	0.7712	1.141	1.154
Mo2020	202.030	{4 Y_2243	ppm	1.093	0.0077	0.7014	1.099	1.088
Na5895	589.592	{ 8 Y_3710	ppm	152.7	2.821	1.848	150.7	154.7
Na8183	818.326	{ 4 Y_3710	ppm	156.6	0.0307	0.0196	156.5	156.6
Ni2316	231.604	{4 In2306	ppm	0.9864	0.0077	0.7792	0.9918	0.9809
P_1782	178.284	{4 In2306	ppm	0.0082	0.002	24.12	0.0096	0.0068
Pb2203	220.353	{4 In2306	ppm	12.73	0.0624	0.4905	12.78	12.69
S_1820	182.034	{4 Y_2243	ppm	-51.9	0.2712	0.5226	-51.71	-52.09
Sb2068	206.833	{4 Y_2243	ppm	1.038	0.0022	0.209	1.039	1.036
Se1960	196.090	{4 Y_2243	ppm	1.106	0.0004	0.0391	1.107	1.106
Si2516	251.611	{1 Y_3710	ppm	1.793	0.0047	0.2619	1.797	1.79
Sn1899	189.989	{4 In2306	ppm	1.055	0.0055	0.5209	1.059	1.051
Sr4215	421.552	{ 8 Y_3710	ppm	0.627	0.0004	0.0712	0.6266	0.6273
Ti3349	334.904	{1 Y_3600	ppm	0.9841	0.0032	0.325	0.9864	0.9818
Tl1908	190.856	{4 In2306	ppm	0.9634	0.0046	0.4769	0.9667	0.9602
V_2924	292.402	{1 Y_3600	ppm	0.9811	0.0046	0.4675	0.9843	0.9779
Zn2062	206.200	{4 In2306	ppm	1.247	0.0106	0.8503	1.255	1.24

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1040.2	0.42755	0.0411	1040.5	1039.9
In2306	230.606	{4 Cts/S	16469	44.422	0.26973	16438	16500
Y_2243	224.306	{4 Cts/S	21163	29.266	0.13829	21142	21184
Y_3600	360.073	{ 9 Cts/S	194420	381.09	0.19601	194150	194690
Y_3710	371.030	{ 9 Cts/S	60374	498.25	0.82527	60726	60022

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60702-a-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:15:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5476	0.004	0.7311	0.5505	0.5448
Al3082	308.215 {1	In2306	ppm	10.61	0.0205	0.193	10.6	10.63
As1890	189.042 {4	Y_2243	ppm	1.11	0.0029	0.261	1.112	1.108
B_2496	249.678 {1	Y_3710	ppm	1.055	0.0108	1.02	1.047	1.062
Ba4554	455.403 {	Y_3710	ppm	1.119	0.0041	0.3642	1.116	1.121
Be3130	313.042 {1	Y_3710	ppm	0.5179	0.0006	0.1127	0.5175	0.5183
Ca3158	315.887 {1	In2306	ppm	57.05	0.2237	0.3922	57.21	56.9
Ca3181	318.128 {1	In2306	ppm	52.01	0.2557	0.4917	52.19	51.83
Cd2288	228.802 {4	Y_2243	ppm	0.5387	0.0017	0.3099	0.5399	0.5376
Co2286	228.616 {4	In2306	ppm	1.044	0.0031	0.2968	1.046	1.042
Cr2677	267.716 {1	Y_3600	ppm	1.017	0.0132	1.302	1.026	1.007
Cu3247	324.754 {1	Y_3600	ppm	1.075	0.0049	0.4521	1.079	1.072
Fe2404	240.488 {1	In2306	ppm	10.42	0.0479	0.4601	10.45	10.38
K_7664	766.490 {	Y_3710	ppm	10.95	0.0059	0.0542	10.94	10.95
K_7698	769.896 {	Y_3710	ppm	11.15	0.0612	0.5488	11.11	11.2
Li6707	670.784 {	Y_3710	ppm	0.5356	0.0016	0.2903	0.5345	0.5367
Mg2790	279.079 {1	Y_3710	ppm	10.74	0.0091	0.0844	10.74	10.75
Mn2576	257.610 {1	Y_3600	ppm	1.164	0.0058	0.4998	1.169	1.16
Mn2576-2	257.610 {1	Y_3710	ppm	1.164	0.0015	0.1281	1.163	1.165
Mo2020	202.030 {4	Y_2243	ppm	1.124	0.0053	0.4707	1.128	1.121
Na5895	589.592 {	Y_3710	ppm	155.3	2.647	1.704	153.5	157.2
Na8183	818.326 {	Y_3710	ppm	159.2	0.2308	0.145	159	159.4
Ni2316	231.604 {4	In2306	ppm	1.008	0.0025	0.2525	1.01	1.006
P_1782	178.284 {4	In2306	ppm	0.0076	0.0006	7.228	0.0072	0.008
Pb2203	220.353 {4	In2306	ppm	13.02	0.037	0.2838	13.05	12.99
S_1820	182.034 {4	Y_2243	ppm	-53.43	0.0154	0.0289	-53.42	-53.44
Sb2068	206.833 {4	Y_2243	ppm	1.067	0.0034	0.322	1.07	1.065
Se1960	196.090 {4	Y_2243	ppm	1.134	0.0038	0.3382	1.137	1.131
Si2516	251.611 {1	Y_3710	ppm	1.822	0.0103	0.5628	1.814	1.829
Sn1899	189.989 {4	In2306	ppm	1.079	0.0029	0.2661	1.081	1.077
Sr4215	421.552 {	Y_3710	ppm	0.6398	0.004	0.6276	0.637	0.6427
Ti3349	334.904 {1	Y_3600	ppm	1.015	0.0087	0.8584	1.021	1.008
Tl1908	190.856 {4	In2306	ppm	0.9879	0.0061	0.6172	0.9922	0.9836
V_2924	292.402 {1	Y_3600	ppm	1.006	0.0148	1.474	1.017	0.996
Zn2062	206.200 {4	In2306	ppm	1.275	0.0012	0.0966	1.276	1.274

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1047.8	5.2168	0.49789	1044.1	1051.5
In2306	230.606 {4	Cts/S	16463	22.892	0.13905	16447	16479
Y_2243	224.306 {4	Cts/S	21169	41.428	0.1957	21140	21199
Y_3600	360.073 {	Cts/S	193310	1269.6	0.65675	192410	194210
Y_3710	371.030 {	Cts/S	61159	93.138	0.15229	61093	61224

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60679-a-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:17:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0004	0.0003	85.06	0.0001	0.0006
Al3082	308.215	{1 In2306	ppm	-0.0002	0.007	3980	-0.0051	0.0048
As1890	189.042	{4 Y_2243	ppm	0.0043	0.0006	13.18	0.0039	0.0047
B_2496	249.678	{1 Y_3710	ppm	0.0775	0.0025	3.165	0.0758	0.0792
Ba4554	455.403	{ 7 Y_3710	ppm	0.0219	0	0.115	0.022	0.0219
Be3130	313.042	{1 Y_3710	ppm	-0.0001	0.0001	81.32	0	-0.0001
Ca3158	315.887	{1 In2306	ppm	9.221	0.0261	0.2829	9.203	9.239
Ca3181	318.128	{1 In2306	ppm	8.441	0.0385	0.456	8.413	8.468
Cd2288	228.802	{4 Y_2243	ppm	0.0013	0.0016	118.6	0.0002	0.0024
Co2286	228.616	{4 In2306	ppm	0.0028	0.0031	112.6	0.0006	0.0049
Cr2677	267.716	{1 Y_3600	ppm	0.001	0.0003	30.63	0.0012	0.0008
Cu3247	324.754	{1 Y_3600	ppm	0.0085	0.0001	0.8654	0.0086	0.0084
Fe2404	240.488	{1 In2306	ppm	0.015	0.0011	7.007	0.0142	0.0157
K_7664	766.490	{ 4 Y_3710	ppm	1.831	0.003	0.1623	1.828	1.833
K_7698	769.896	{ 4 Y_3710	ppm	1.889	0.0039	0.2042	1.892	1.886
Li6707	670.784	{ 8 Y_3710	ppm	-0.0001	0.0011	1379	0.0007	-0.0008
Mg2790	279.079	{1 Y_3710	ppm	1.806	0.0124	0.6889	1.797	1.815
Mn2576	257.610	{1 Y_3600	ppm	0.1233	0.0004	0.3111	0.123	0.1236
Mn2576-2	257.610	{1 Y_3710	ppm	0.124	0.001	0.775	0.1233	0.1246
Mo2020	202.030	{4 Y_2243	ppm	0.0064	0.0047	74.04	0.003	0.0097
Na5895	589.592	{ 8 Y_3710	ppm	140.7	2.114	1.502	139.2	142.2
Na8183	818.326	{ 4 Y_3710	ppm	145.5	0.1806	0.1242	145.6	145.3
Ni2316	231.604	{4 In2306	ppm	0.0044	0.0032	72.52	0.0021	0.0066
P_1782	178.284	{4 In2306	ppm	3.66	0.0081	0.2217	3.666	3.654
Pb2203	220.353	{4 In2306	ppm	0.023	0.027	117.5	0.0039	0.0421
S_1820	182.034	{4 Y_2243	ppm	-25.56	0.1535	0.6005	-25.67	-25.45
Sb2068	206.833	{4 Y_2243	ppm	0.0072	0.0038	52.75	0.0045	0.0098
Se1960	196.090	{4 Y_2243	ppm	0.0039	0.0024	61.44	0.0022	0.0056
Si2516	251.611	{1 Y_3710	ppm	0.2368	0.001	0.4072	0.2361	0.2375
Sn1899	189.989	{4 In2306	ppm	0.004	0.0044	109.9	0.0009	0.0071
Sr4215	421.552	{ 8 Y_3710	ppm	0.0436	0.0002	0.4772	0.0437	0.0434
Ti3349	334.904	{1 Y_3600	ppm	0.0006	0	1.923	0.0007	0.0006
Tl1908	190.856	{4 In2306	ppm	0.0036	0.0052	145	-0.0001	0.0073
V_2924	292.402	{1 Y_3600	ppm	0	0.0002	9745	0.0001	-0.0001
Zn2062	206.200	{4 In2306	ppm	0.185	0.0039	2.11	0.1823	0.1878

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1057.3	2.2173	0.20971	1058.9	1055.8
In2306	230.606	{4 Cts/S	17179	45.04	0.26218	17210	17147
Y_2243	224.306	{4 Cts/S	21349	24.779	0.11607	21366	21331
Y_3600	360.073	{ 9 Cts/S	195810	395.39	0.20193	196090	195530
Y_3710	371.030	{ 9 Cts/S	60983	26.736	0.04384	61002	60964

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60703-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:20:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0011	0.0001	13.13	0.001	0.0012
Al3082	308.215 {1	In2306	ppm	0.0759	0.0058	7.664	0.0717	0.08
As1890	189.042 {4	Y_2243	ppm	0.0015	0.0006	38.39	0.0019	0.0011
B_2496	249.678 {1	Y_3710	ppm	0.0219	0.0014	6.582	0.0229	0.0209
Ba4554	455.403 {	Y_3710	ppm	0.0779	0.0005	0.6214	0.0775	0.0782
Be3130	313.042 {1	Y_3710	ppm	0	0	143.1	0.0001	0
Ca3158	315.887 {1	In2306	ppm	13.05	0.0741	0.5676	13	13.1
Ca3181	318.128 {1	In2306	ppm	11.9	0.0386	0.3244	11.88	11.93
Cd2288	228.802 {4	Y_2243	ppm	0.0022	0.0001	3.367	0.0022	0.0023
Co2286	228.616 {4	In2306	ppm	0.0015	0	0.1816	0.0015	0.0015
Cr2677	267.716 {1	Y_3600	ppm	0.0287	0.0005	1.751	0.0291	0.0284
Cu3247	324.754 {1	Y_3600	ppm	0.0071	0.0006	8.447	0.0067	0.0075
Fe2404	240.488 {1	In2306	ppm	1.779	0.0059	0.3299	1.775	1.784
K_7664	766.490 {	Y_3710	ppm	0.1091	0.0235	21.51	0.1257	0.0925
K_7698	769.896 {	Y_3710	ppm	0.0644	0.0181	28.09	0.0772	0.0516
Li6707	670.784 {	Y_3710	ppm	-0.0001	0.0006	495.3	0.0003	-0.0005
Mg2790	279.079 {1	Y_3710	ppm	0.5766	0.0082	1.429	0.5707	0.5824
Mn2576	257.610 {1	Y_3600	ppm	0.0468	0.0002	0.386	0.0469	0.0467
Mn2576-2	257.610 {1	Y_3710	ppm	0.0476	0	0.093	0.0476	0.0476
Mo2020	202.030 {4	Y_2243	ppm	0.001	0.0001	14.74	0.0009	0.0011
Na5895	589.592 {	Y_3710	ppm	143.8	3.58	2.49	141.3	146.3
Na8183	818.326 {	Y_3710	ppm	150.5	1.043	0.6932	149.7	151.2
Ni2316	231.604 {4	In2306	ppm	0.0041	0	0.5976	0.004	0.0041
P_1782	178.284 {4	In2306	ppm	0.0067	0.0077	114	0.0013	0.0121
Pb2203	220.353 {4	In2306	ppm	0.647	0.0279	4.32	0.6272	0.6667
S_1820	182.034 {4	Y_2243	ppm	-10	0.6159	6.16	-9.564	-10.44
Sb2068	206.833 {4	Y_2243	ppm	0	0.0016	3590	-0.0011	0.0012
Se1960	196.090 {4	Y_2243	ppm	0	0.0016	18260	0.0011	-0.0012
Si2516	251.611 {1	Y_3710	ppm	0.2629	0.0082	3.102	0.2571	0.2686
Sn1899	189.989 {4	In2306	ppm	0.0006	0.0002	30.41	0.0005	0.0007
Sr4215	421.552 {	Y_3710	ppm	0.0627	0.0003	0.4207	0.0625	0.0629
Ti3349	334.904 {1	Y_3600	ppm	0.0005	0.0003	48.85	0.0007	0.0003
Tl1908	190.856 {4	In2306	ppm	-0.0022	0.0001	5.55	-0.0023	-0.0021
V_2924	292.402 {1	Y_3600	ppm	-0.0005	0.0001	14.38	-0.0005	-0.0006
Zn2062	206.200 {4	In2306	ppm	3.259	0.134	4.112	3.164	3.354

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1061.6	4.9701	0.46818	1065.1	1058.1
In2306	230.606 {4	Cts/S	17095	574.08	3.3581	17501	16689
Y_2243	224.306 {4	Cts/S	21276	681.85	3.2048	21758	20794
Y_3600	360.073 {	Cts/S	195900	465.51	0.23762	195570	196230
Y_3710	371.030 {	Cts/S	60832	103.57	0.17025	60906	60759

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60705-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:22:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0001	23.06	0.0004	0.0005
Al3082	308.215 {1	In2306	ppm	0.0947	0.0061	6.46	0.099	0.0904
As1890	189.042 {4	Y_2243	ppm	0.0002	0.0018	1085	-0.0011	0.0015
B_2496	249.678 {1	Y_3710	ppm	0.0246	0.0012	5.02	0.0254	0.0237
Ba4554	455.403 {	Y_3710	ppm	0.1014	0.0021	2.068	0.1029	0.0999
Be3130	313.042 {1	Y_3710	ppm	0	0	69.08	0	0
Ca3158	315.887 {1	In2306	ppm	15.89	0.6074	3.823	16.32	15.46
Ca3181	318.128 {1	In2306	ppm	14.73	0.296	2.01	14.94	14.52
Cd2288	228.802 {4	Y_2243	ppm	0.0099	0	0.1403	0.0099	0.0099
Co2286	228.616 {4	In2306	ppm	0.0069	0.0001	0.7872	0.007	0.0069
Cr2677	267.716 {1	Y_3600	ppm	0.0161	0	0.0518	0.0161	0.0161
Cu3247	324.754 {1	Y_3600	ppm	0.0025	0.0004	14.65	0.0027	0.0022
Fe2404	240.488 {1	In2306	ppm	12.94	0.2961	2.288	13.15	12.73
K_7664	766.490 {	Y_3710	ppm	0.2391	0.0499	20.85	0.2744	0.2039
K_7698	769.896 {	Y_3710	ppm	0.2535	0.0606	23.89	0.2963	0.2106
Li6707	670.784 {	Y_3710	ppm	0.0003	0.0003	124.3	0.0005	0
Mg2790	279.079 {1	Y_3710	ppm	0.699	0.0125	1.782	0.7078	0.6902
Mn2576	257.610 {1	Y_3600	ppm	0.1955	0.0006	0.2877	0.1959	0.1951
Mn2576-2	257.610 {1	Y_3710	ppm	0.1929	0.0055	2.866	0.1968	0.189
Mo2020	202.030 {4	Y_2243	ppm	0.001	0.0001	5.956	0.001	0.001
Na5895	589.592 {	Y_3710	ppm	145.4	3.52	2.42	147.9	143
Na8183	818.326 {	Y_3710	ppm	148.2	2.77	1.869	150.2	146.2
Ni2316	231.604 {4	In2306	ppm	0.0158	0.0002	0.9817	0.0157	0.0159
P_1782	178.284 {4	In2306	ppm	0.0012	0.0004	31.83	0.001	0.0015
Pb2203	220.353 {4	In2306	ppm	0.3438	0.004	1.176	0.3409	0.3466
S_1820	182.034 {4	Y_2243	ppm	-26.06	0.5086	1.951	-25.7	-26.42
Sb2068	206.833 {4	Y_2243	ppm	-0.001	0	1.791	-0.001	-0.0011
Se1960	196.090 {4	Y_2243	ppm	0.0036	0.0007	18.17	0.0031	0.0041
Si2516	251.611 {1	Y_3710	ppm	0.3858	0.0043	1.111	0.3889	0.3828
Sn1899	189.989 {4	In2306	ppm	0.0004	0	2.387	0.0004	0.0004
Sr4215	421.552 {	Y_3710	ppm	0.0754	0.0015	1.971	0.0765	0.0744
Ti3349	334.904 {1	Y_3600	ppm	0	0	1822	0	0
Tl1908	190.856 {4	In2306	ppm	-0.0002	0.0005	195.6	0.0001	-0.0006
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	46.91	-0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	8.724	0.0561	0.6426	8.684	8.764

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1072.4	25.002	2.3313	1054.8	1090.1
In2306	230.606 {4	Cts/S	17004	167.93	0.98762	17123	16885
Y_2243	224.306 {4	Cts/S	21274	227.1	1.0675	21435	21113
Y_3600	360.073 {	Cts/S	196810	367.24	0.1866	196550	197070
Y_3710	371.030 {	Cts/S	62068	1482.9	2.3891	61020	63117

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60706-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:25:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0007	101.6	0.0011	0.0002
Al3082	308.215 {1	In2306	ppm	0.0542	0.0127	23.49	0.0452	0.0632
As1890	189.042 {4	Y_2243	ppm	-0.002	0.0008	43.16	-0.0014	-0.0025
B_2496	249.678 {1	Y_3710	ppm	0.0156	0.0005	3.201	0.0153	0.016
Ba4554	455.403 {	Y_3710	ppm	0.0125	0.0002	1.928	0.0124	0.0127
Be3130	313.042 {1	Y_3710	ppm	0	0	96.91	0	0
Ca3158	315.887 {1	In2306	ppm	10.17	0.0339	0.3336	10.15	10.2
Ca3181	318.128 {1	In2306	ppm	9.269	0.0812	0.8757	9.212	9.327
Cd2288	228.802 {4	Y_2243	ppm	0.002	0	2.316	0.0019	0.002
Co2286	228.616 {4	In2306	ppm	0.0014	0.0002	12.59	0.0013	0.0015
Cr2677	267.716 {1	Y_3600	ppm	0.0011	0	0.1547	0.0011	0.0011
Cu3247	324.754 {1	Y_3600	ppm	0.0056	0.0002	4.151	0.0054	0.0057
Fe2404	240.488 {1	In2306	ppm	1.537	0.0115	0.747	1.529	1.546
K_7664	766.490 {	Y_3710	ppm	0.0966	0.0124	12.82	0.1053	0.0878
K_7698	769.896 {	Y_3710	ppm	0.1047	0.0197	18.85	0.1187	0.0908
Li6707	670.784 {	Y_3710	ppm	0.0002	0.001	415.9	-0.0005	0.001
Mg2790	279.079 {1	Y_3710	ppm	0.4258	0.0003	0.0593	0.4256	0.4259
Mn2576	257.610 {1	Y_3600	ppm	0.0347	0.0002	0.6318	0.0346	0.0349
Mn2576-2	257.610 {1	Y_3710	ppm	0.0348	0.0002	0.4335	0.0347	0.0349
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	57.1	0.0002	0.0001
Na5895	589.592 {	Y_3710	ppm	147.9	2.456	1.66	146.2	149.7
Na8183	818.326 {	Y_3710	ppm	151.9	1.798	1.183	150.7	153.2
Ni2316	231.604 {4	In2306	ppm	0.0038	0	0.9786	0.0038	0.0037
P_1782	178.284 {4	In2306	ppm	0.0006	0.0001	17.16	0.0006	0.0007
Pb2203	220.353 {4	In2306	ppm	2.658	0.0151	0.5666	2.669	2.647
S_1820	182.034 {4	Y_2243	ppm	-6.689	0.1224	1.83	-6.603	-6.776
Sb2068	206.833 {4	Y_2243	ppm	0	0.0018	6146	-0.0013	0.0013
Se1960	196.090 {4	Y_2243	ppm	-0.0007	0.0003	41.04	-0.0005	-0.0009
Si2516	251.611 {1	Y_3710	ppm	0.2082	0.004	1.903	0.2054	0.211
Sn1899	189.989 {4	In2306	ppm	0.0003	0.0002	62.1	0.0005	0.0002
Sr4215	421.552 {	Y_3710	ppm	0.0464	0.0004	0.9316	0.0461	0.0467
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0004	243.9	0.0001	-0.0004
Tl1908	190.856 {4	In2306	ppm	-0.0001	0.0004	646.9	0.0002	-0.0003
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0002	148.3	0	-0.0002
Zn2062	206.200 {4	In2306	ppm	0.1207	0.016	13.29	0.1093	0.132

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1058.3	1.3123	0.12401	1059.2	1057.4
In2306	230.606 {4	Cts/S	17089	82.904	0.48513	17030	17148
Y_2243	224.306 {4	Cts/S	21229	100.52	0.47347	21158	21301
Y_3600	360.073 {	Cts/S	193990	263.09	0.13562	194180	193810
Y_3710	371.030 {	Cts/S	60603	528.9	0.87273	60977	60229

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:27:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2542	0.0017	0.6524	0.253	0.2554
Al3082	308.215 {1	In2306	ppm	2.475	0.03	1.214	2.454	2.496
As1890	189.042 {4	Y_2243	ppm	0.5175	0.0014	0.271	0.5185	0.5165
B_2496	249.678 {1	Y_3710	ppm	0.4834	0.0045	0.9366	0.4866	0.4802
Ba4554	455.403 {	Y_3710	ppm	0.4964	0	0.0019	0.4964	0.4964
Be3130	313.042 {1	Y_3710	ppm	0.4945	0.002	0.3996	0.4959	0.4931
Ca3158	315.887 {1	In2306	ppm	13.31	0.047	0.3531	13.28	13.34
Ca3181	318.128 {1	In2306	ppm	12.12	0.0155	0.1276	12.11	12.13
Cd2288	228.802 {4	Y_2243	ppm	0.5051	0.0027	0.5312	0.507	0.5032
Co2286	228.616 {4	In2306	ppm	0.4808	0.0017	0.3586	0.482	0.4795
Cr2677	267.716 {1	Y_3600	ppm	0.4894	0.0006	0.1166	0.489	0.4898
Cu3247	324.754 {1	Y_3600	ppm	0.5043	0.0021	0.4144	0.5028	0.5058
Fe2404	240.488 {1	In2306	ppm	2.491	0.0225	0.9014	2.475	2.507
K_7664	766.490 {	Y_3710	ppm	12.27	0.0472	0.385	12.3	12.23
K_7698	769.896 {	Y_3710	ppm	12.55	0.1439	1.147	12.65	12.45
Li6707	670.784 {	Y_3710	ppm	0.5091	0.003	0.5986	0.5113	0.507
Mg2790	279.079 {1	Y_3710	ppm	4.782	0.0623	1.304	4.827	4.738
Mn2576	257.610 {1	Y_3600	ppm	0.5289	0.0013	0.2484	0.528	0.5298
Mn2576-2	257.610 {1	Y_3710	ppm	0.5383	0.0032	0.6002	0.5406	0.536
Mo2020	202.030 {4	Y_2243	ppm	0.5396	0.0023	0.4254	0.5412	0.538
Na5895	589.592 {	Y_3710	ppm	12.56	0.0523	0.4163	12.6	12.52
Na8183	818.326 {	Y_3710	ppm	12.81	0.0666	0.5199	12.86	12.76
Ni2316	231.604 {4	In2306	ppm	0.4658	0.0013	0.2737	0.4667	0.4649
P_1782	178.284 {4	In2306	ppm	0.4846	0.0032	0.6528	0.4869	0.4824
Pb2203	220.353 {4	In2306	ppm	0.4888	0.0004	0.0882	0.4885	0.4891
S_1820	182.034 {4	Y_2243	ppm	-169.6	1.33	0.784	-170.6	-168.7
Sb2068	206.833 {4	Y_2243	ppm	0.5057	0.0026	0.5235	0.5076	0.5039
Se1960	196.090 {4	Y_2243	ppm	0.5232	0.0022	0.42	0.5248	0.5217
Si2516	251.611 {1	Y_3710	ppm	0.9023	0.0043	0.482	0.8993	0.9054
Sn1899	189.989 {4	In2306	ppm	0.5004	0.0012	0.2315	0.5012	0.4996
Sr4215	421.552 {	Y_3710	ppm	0.2587	0.0014	0.5477	0.2597	0.2577
Ti3349	334.904 {1	Y_3600	ppm	0.4818	0.0004	0.0752	0.4816	0.4821
Tl1908	190.856 {4	In2306	ppm	0.4778	0.0026	0.5432	0.4796	0.4759
V_2924	292.402 {1	Y_3600	ppm	0.4819	0.0014	0.2939	0.4809	0.4829
Zn2062	206.200 {4	In2306	ppm	0.4703	0.0009	0.1998	0.471	0.4697

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1064.6	0.85859	0.08065	1064	1065.3
In2306	230.606 {4	Cts/S	18309	84.673	0.46247	18249	18369
Y_2243	224.306 {4	Cts/S	21897	118.08	0.53924	21813	21980
Y_3600	360.073 {	Cts/S	203050	1138.8	0.56086	203860	202250
Y_3710	371.030 {	Cts/S	60811	276.27	0.45431	60615	61006

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:30:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.006	0.0004	7.323	0.0057	0.0063
Al3082	308.215	{1 In2306	ppm	0.0884	0.0222	25.16	0.0727	0.1042
As1890	189.042	{4 Y_2243	ppm	0.0101	0.0011	11.35	0.0093	0.0109
B_2496	249.678	{1 Y_3710	ppm	0.0116	0.0016	13.48	0.0105	0.0127
Ba4554	455.403	{ 7 Y_3710	ppm	0.01	0	0.0652	0.01	0.01
Be3130	313.042	{1 Y_3710	ppm	0.005	0	0.056	0.005	0.005
Ca3158	315.887	{1 In2306	ppm	0.1095	0.0064	5.876	0.1141	0.105
Ca3181	318.128	{1 In2306	ppm	0.1071	0.0065	6.086	0.1025	0.1117
Cd2288	228.802	{4 Y_2243	ppm	0.0054	0.0005	8.372	0.0051	0.0057
Co2286	228.616	{4 In2306	ppm	0.0096	0.0006	5.955	0.0092	0.01
Cr2677	267.716	{1 Y_3600	ppm	0.0102	0.0004	4.179	0.0099	0.0105
Cu3247	324.754	{1 Y_3600	ppm	0.0132	0.0002	1.574	0.0131	0.0134
Fe2404	240.488	{1 In2306	ppm	0.1016	0.0025	2.496	0.1034	0.0998
K_7664	766.490	{ 4 Y_3710	ppm	0.5955	0.0112	1.882	0.6034	0.5875
K_7698	769.896	{ 4 Y_3710	ppm	0.5867	0.0807	13.76	0.5296	0.6438
Li6707	670.784	{ 8 Y_3710	ppm	0.0101	0.0001	0.5684	0.0101	0.0101
Mg2790	279.079	{1 Y_3710	ppm	0.0912	0.0023	2.515	0.0895	0.0928
Mn2576	257.610	{1 Y_3600	ppm	0.011	0.0001	0.4661	0.011	0.0111
Mn2576-2	257.610	{1 Y_3710	ppm	0.0109	0.001	8.974	0.0116	0.0102
Mo2020	202.030	{4 Y_2243	ppm	0.0124	0.0011	8.564	0.0116	0.0131
Na5895	589.592	{ 8 Y_3710	ppm	0.6148	0.0012	0.189	0.6156	0.614
Na8183	818.326	{ 4 Y_3710	ppm	0.6836	0.0063	0.9274	0.6881	0.6792
Ni2316	231.604	{4 In2306	ppm	0.0098	0.0006	5.841	0.0094	0.0102
P_1782	178.284	{4 In2306	ppm	0.0061	0.0007	11.31	0.0056	0.0065
Pb2203	220.353	{4 In2306	ppm	0.0108	0.0001	1.099	0.0108	0.0107
S_1820	182.034	{4 Y_2243	ppm	0.3812	0.0441	11.58	0.4124	0.3499
Sb2068	206.833	{4 Y_2243	ppm	0.0132	0	0.0929	0.0132	0.0131
Se1960	196.090	{4 Y_2243	ppm	0.0116	0.0019	16.45	0.0103	0.0129
Si2516	251.611	{1 Y_3710	ppm	0.0094	0.0056	59.31	0.0055	0.0134
Sn1899	189.989	{4 In2306	ppm	0.0102	0.0011	10.96	0.0094	0.011
Sr4215	421.552	{ 8 Y_3710	ppm	0.0052	0.0001	1.947	0.0053	0.0051
Ti3349	334.904	{1 Y_3600	ppm	0.01	0.0004	3.96	0.0097	0.0103
Tl1908	190.856	{4 In2306	ppm	0.0107	0.0008	7.203	0.0101	0.0112
V_2924	292.402	{1 Y_3600	ppm	0.0092	0.0001	1.601	0.0091	0.0093
Zn2062	206.200	{4 In2306	ppm	0.0095	0.0005	5.383	0.0091	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1098.1	8.1334	0.74071	1092.3	1103.8
In2306	230.606	{4 Cts/S	19482	428.64	2.2001	19786	19179
Y_2243	224.306	{4 Cts/S	22385	516.35	2.3067	22750	22020
Y_3600	360.073	{ 9 Cts/S	205480	6009.8	2.9247	209730	201230
Y_3710	371.030	{ 9 Cts/S	61742	122.22	0.19796	61655	61828

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:32:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0001	10.91	0.0006	0.0008
Al3082	308.215 {1	In2306	ppm	-0.0021	0.0033	159.3	0.0003	-0.0044
As1890	189.042 {4	Y_2243	ppm	-0.0006	0.0002	23.6	-0.0005	-0.0008
B_2496	249.678 {1	Y_3710	ppm	-0.0004	0.0019	441.6	0.0009	-0.0017
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	11.97	-0.0002	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	259.6	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0041	0.0092	226.3	-0.0106	0.0024
Ca3181	318.128 {1	In2306	ppm	0.0271	0.0097	35.98	0.0202	0.034
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	37.32	0	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	32.19	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0	0	105.4	0	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0027	0.0003	12.49	0.0025	0.003
Fe2404	240.488 {1	In2306	ppm	0.0068	0.0008	11.08	0.0074	0.0063
K_7664	766.490 {	Y_3710	ppm	0.014	0.0041	29.22	0.0111	0.0169
K_7698	769.896 {	Y_3710	ppm	-0.0131	0.0545	416.4	0.0255	-0.0517
Li6707	670.784 {	Y_3710	ppm	-0.0008	0.0005	60.72	-0.0005	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	-0.0074	0.0035	48.09	-0.0099	-0.0049
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	354.7	0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	0	0.0002	443.7	0.0001	-0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0002	233	-0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	-0.0097	0.0019	19.75	-0.0084	-0.0111
Na8183	818.326 {	Y_3710	ppm	-0.0261	0.1585	607.4	-0.1382	0.086
Ni2316	231.604 {4	In2306	ppm	0.0003	0.0001	46.49	0.0004	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0029	0.0004	12.58	-0.0032	-0.0027
Pb2203	220.353 {4	In2306	ppm	-0.0004	0.0012	312.9	0.0005	-0.0013
S_1820	182.034 {4	Y_2243	ppm	0.6477	0.2154	33.26	0.8	0.4954
Sb2068	206.833 {4	Y_2243	ppm	-0.0007	0.0009	117.9	-0.0013	-0.0001
Se1960	196.090 {4	Y_2243	ppm	0.0006	0.0002	39.37	0.0004	0.0007
Si2516	251.611 {1	Y_3710	ppm	-0.001	0.0041	416.9	-0.0039	0.0019
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0002	233.4	0.0001	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	40.47	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0001	65.72	-0.0001	0
Tl1908	190.856 {4	In2306	ppm	0.0001	0.0003	465.6	-0.0001	0.0003
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0001	30.33	0.0003	0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0002	0	11.27	-0.0002	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1082.8	17.995	1.6619	1070.1	1095.5
In2306	230.606 {4	Cts/S	19399	421.87	2.1747	19101	19697
Y_2243	224.306 {4	Cts/S	22159	439.98	1.9856	21848	22470
Y_3600	360.073 {	Cts/S	208080	221.6	0.1065	208230	207920
Y_3710	371.030 {	Cts/S	60913	1001.2	1.6437	60205	61621

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60656-b-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:34:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0005	0	9.688	0.0005	0.0004
Al3082	308.215	{1 In2306	ppm	-0.0141	0.0011	7.579	-0.0134	-0.0149
As1890	189.042	{4 Y_2243	ppm	-0.0005	0.0008	187.6	0.0001	-0.001
B_2496	249.678	{1 Y_3710	ppm	0.0164	0.0043	25.94	0.0194	0.0134
Ba4554	455.403	{ ï Y_3710	ppm	0.011	0.0001	0.7641	0.0111	0.0109
Be3130	313.042	{1 Y_3710	ppm	0	0	73.77	0.0001	0
Ca3158	315.887	{1 In2306	ppm	2.615	0.0032	0.122	2.613	2.617
Ca3181	318.128	{1 In2306	ppm	2.387	0.0003	0.0127	2.387	2.388
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	15.75	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0.0001	146.3	0.0001	0
Cr2677	267.716	{1 Y_3600	ppm	0.0001	0.0001	120.5	0.0001	0
Cu3247	324.754	{1 Y_3600	ppm	0.003	0.0002	5.65	0.0031	0.0029
Fe2404	240.488	{1 In2306	ppm	0.0032	0.0009	28.08	0.0039	0.0026
K_7664	766.490	{ ¿ Y_3710	ppm	5.897	0.0125	0.2112	5.906	5.889
K_7698	769.896	{ ¿ Y_3710	ppm	6.048	0.075	1.24	6.101	5.995
Li6707	670.784	{ ß Y_3710	ppm	-0.0003	0.0008	220.4	0.0002	-0.0009
Mg2790	279.079	{1 Y_3710	ppm	0.4111	0.007	1.697	0.4061	0.416
Mn2576	257.610	{1 Y_3600	ppm	0.0295	0.0002	0.6742	0.0293	0.0296
Mn2576-2	257.610	{1 Y_3710	ppm	0.0298	0.0003	1.128	0.0301	0.0296
Mo2020	202.030	{4 Y_2243	ppm	-0.0001	0	10.75	-0.0001	-0.0001
Na5895	589.592	{ ß Y_3710	ppm	145	0.499	0.344	145.4	144.7
Na8183	818.326	{ ¿ Y_3710	ppm	151.9	0.2491	0.164	151.7	152.1
Ni2316	231.604	{4 In2306	ppm	0.0003	0.0001	38.82	0.0002	0.0004
P_1782	178.284	{4 In2306	ppm	0.6537	0.0068	1.045	0.6488	0.6585
Pb2203	220.353	{4 In2306	ppm	0.0042	0.0009	20.5	0.0048	0.0036
S_1820	182.034	{4 Y_2243	ppm	-67.09	0.5984	0.8919	-66.67	-67.52
Sb2068	206.833	{4 Y_2243	ppm	-0.0006	0.0009	133.3	-0.0013	0
Se1960	196.090	{4 Y_2243	ppm	0.0015	0.0004	24.71	0.0018	0.0012
Si2516	251.611	{1 Y_3710	ppm	0.2462	0.001	0.4034	0.2469	0.2455
Sn1899	189.989	{4 In2306	ppm	0.0001	0.0002	107.9	0	0.0003
Sr4215	421.552	{ ß Y_3710	ppm	0.0196	0	0.1128	0.0196	0.0196
Ti3349	334.904	{1 Y_3600	ppm	-0.0002	0.0002	85.07	-0.0003	-0.0001
Tl1908	190.856	{4 In2306	ppm	-0.0003	0.0001	21.59	-0.0002	-0.0003
V_2924	292.402	{1 Y_3600	ppm	0	0.0003	2376	0.0002	-0.0002
Zn2062	206.200	{4 In2306	ppm	0.0056	0.0001	1.567	0.0055	0.0056

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1066.5	1.2156	0.11398	1067.4	1065.6
In2306	230.606	{4 Cts/S	16965	216.16	1.2741	17118	16813
Y_2243	224.306	{4 Cts/S	20906	232.53	1.1123	21071	20742
Y_3600	360.073	{ ¢ Cts/S	194930	94.027	0.04824	195000	194860
Y_3710	371.030	{ ¢ Cts/S	60965	316.61	0.51934	61189	60741

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60656-b-1-e ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:37:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5413	0.0017	0.3065	0.5425	0.5401
Al3082	308.215 {1	In2306	ppm	10.42	0.0595	0.5714	10.46	10.38
As1890	189.042 {4	Y_2243	ppm	1.096	0.0065	0.5892	1.091	1.1
B_2496	249.678 {1	Y_3710	ppm	1.021	0.0026	0.2586	1.019	1.023
Ba4554	455.403 {	Y_3710	ppm	1.038	0.0034	0.3265	1.041	1.036
Be3130	313.042 {1	Y_3710	ppm	0.515	0.0015	0.2861	0.5161	0.514
Ca3158	315.887 {1	In2306	ppm	13.7	0.0161	0.1175	13.71	13.69
Ca3181	318.128 {1	In2306	ppm	12.42	0.0176	0.1415	12.43	12.4
Cd2288	228.802 {4	Y_2243	ppm	0.5289	0.0005	0.0877	0.5286	0.5292
Co2286	228.616 {4	In2306	ppm	1.023	0.0013	0.1311	1.024	1.022
Cr2677	267.716 {1	Y_3600	ppm	0.9873	0.0007	0.0715	0.9868	0.9878
Cu3247	324.754 {1	Y_3600	ppm	1.046	0.0026	0.2477	1.044	1.048
Fe2404	240.488 {1	In2306	ppm	10.23	0.0148	0.1442	10.24	10.22
K_7664	766.490 {	Y_3710	ppm	16.13	0.0571	0.3539	16.17	16.09
K_7698	769.896 {	Y_3710	ppm	16.56	0.0883	0.5335	16.62	16.49
Li6707	670.784 {	Y_3710	ppm	0.5321	0.001	0.1907	0.5314	0.5328
Mg2790	279.079 {1	Y_3710	ppm	10.22	0.0278	0.2719	10.2	10.24
Mn2576	257.610 {1	Y_3600	ppm	1.109	0.0041	0.3652	1.112	1.106
Mn2576-2	257.610 {1	Y_3710	ppm	1.135	0.0029	0.2528	1.133	1.137
Mo2020	202.030 {4	Y_2243	ppm	1.108	0.0012	0.1079	1.109	1.107
Na5895	589.592 {	Y_3710	ppm	156.3	2.972	1.902	158.4	154.2
Na8183	818.326 {	Y_3710	ppm	163.2	0.345	0.2114	163.4	162.9
Ni2316	231.604 {4	In2306	ppm	0.9818	0.0006	0.0605	0.9814	0.9823
P_1782	178.284 {4	In2306	ppm	0.653	0.0018	0.2691	0.6542	0.6517
Pb2203	220.353 {4	In2306	ppm	1.026	0.0006	0.0559	1.027	1.026
S_1820	182.034 {4	Y_2243	ppm	-65.06	0.3864	0.5938	-64.79	-65.34
Sb2068	206.833 {4	Y_2243	ppm	1.044	0.0009	0.0887	1.045	1.044
Se1960	196.090 {4	Y_2243	ppm	1.113	0.0013	0.1207	1.112	1.114
Si2516	251.611 {1	Y_3710	ppm	1.192	0.0075	0.6331	1.186	1.197
Sn1899	189.989 {4	In2306	ppm	1.056	0.0003	0.0273	1.056	1.056
Sr4215	421.552 {	Y_3710	ppm	0.5607	0.0006	0.1088	0.5611	0.5603
Ti3349	334.904 {1	Y_3600	ppm	0.9792	0.0025	0.2592	0.9774	0.981
Tl1908	190.856 {4	In2306	ppm	0.9676	0.003	0.3097	0.9697	0.9655
V_2924	292.402 {1	Y_3600	ppm	0.9773	0.0034	0.343	0.9749	0.9797
Zn2062	206.200 {4	In2306	ppm	1.028	0.0006	0.0563	1.028	1.029

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.4	5.6821	0.53941	1049.4	1057.4
In2306	230.606 {4	Cts/S	16670	2.7966	0.01678	16672	16668
Y_2243	224.306 {4	Cts/S	21168	3.706	0.01751	21170	21165
Y_3600	360.073 {	Cts/S	195820	197.42	0.10082	195960	195680
Y_3710	371.030 {	Cts/S	61089	264.46	0.4329	60902	61276

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60656-b-2-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:39:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0002	0	16.14	0.0002	0.0002
Al3082	308.215	{1 In2306	ppm	0.0035	0.0111	316.1	-0.0044	0.0114
As1890	189.042	{4 Y_2243	ppm	0.0095	0.0005	5.592	0.0092	0.0099
B_2496	249.678	{1 Y_3710	ppm	0.0408	0.0012	2.948	0.0399	0.0416
Ba4554	455.403	{ 7 Y_3710	ppm	0.0233	0	0.1738	0.0233	0.0233
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	24.94	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	37.22	0.1687	0.4532	37.1	37.34
Ca3181	318.128	{1 In2306	ppm	33.63	0.0449	0.1334	33.6	33.66
Cd2288	228.802	{4 Y_2243	ppm	0.001	0.0013	128.3	0.0001	0.0019
Co2286	228.616	{4 In2306	ppm	0.012	0.0027	22.29	0.0101	0.0139
Cr2677	267.716	{1 Y_3600	ppm	0.0012	0.0001	8.385	0.0012	0.0011
Cu3247	324.754	{1 Y_3600	ppm	0.0091	0.0003	3.013	0.0089	0.0092
Fe2404	240.488	{1 In2306	ppm	0.0094	0.0004	4.633	0.0091	0.0097
K_7664	766.490	{ 4 Y_3710	ppm	0.9296	0.0148	1.593	0.9401	0.9192
K_7698	769.896	{ 4 Y_3710	ppm	0.9542	0.0084	0.8805	0.9601	0.9482
Li6707	670.784	{ 8 Y_3710	ppm	0.0016	0.0011	68.02	0.0024	0.0009
Mg2790	279.079	{1 Y_3710	ppm	1.154	0.0001	0.0091	1.154	1.154
Mn2576	257.610	{1 Y_3600	ppm	1.763	0.1224	6.943	1.677	1.85
Mn2576-2	257.610	{1 Y_3710	ppm	1.709	0.0135	0.7908	1.7	1.719
Mo2020	202.030	{4 Y_2243	ppm	0.0056	0.0041	73.95	0.0027	0.0085
Na5895	589.592	{ 8 Y_3710	ppm	158.5	0.1609	0.1015	158.4	158.6
Na8183	818.326	{ 4 Y_3710	ppm	164.5	0.2732	0.1661	164.7	164.3
Ni2316	231.604	{4 In2306	ppm	0.0309	0.0023	7.442	0.0293	0.0325
P_1782	178.284	{4 In2306	ppm	0.4548	0.0021	0.469	0.4564	0.4533
Pb2203	220.353	{4 In2306	ppm	0.003	0.0017	55.73	0.0018	0.0042
S_1820	182.034	{4 Y_2243	ppm	-587.7	2.524	0.4296	-589.5	-585.9
Sb2068	206.833	{4 Y_2243	ppm	0.0063	0.0017	26.42	0.0051	0.0074
Se1960	196.090	{4 Y_2243	ppm	0.0065	0.0015	23.04	0.0054	0.0076
Si2516	251.611	{1 Y_3710	ppm	0.3116	0.0048	1.542	0.3082	0.3149
Sn1899	189.989	{4 In2306	ppm	0.0035	0.0035	99.95	0.001	0.0059
Sr4215	421.552	{ 8 Y_3710	ppm	0.1607	0.0002	0.1538	0.1605	0.1609
Ti3349	334.904	{1 Y_3600	ppm	0.0005	0	4.853	0.0006	0.0005
Tl1908	190.856	{4 In2306	ppm	0.0007	0.0046	700.9	-0.0026	0.0039
V_2924	292.402	{1 Y_3600	ppm	0.001	0.0001	8.288	0.0011	0.001
Zn2062	206.200	{4 In2306	ppm	0.0188	0.0024	12.96	0.0171	0.0205

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1053.1	1.3086	0.12426	1054	1052.2
In2306	230.606	{4 Cts/S	16749	15.518	0.09265	16738	16760
Y_2243	224.306	{4 Cts/S	20875	39.376	0.18863	20847	20903
Y_3600	360.073	{ 9 Cts/S	186910	10265	5.4921	194170	179650
Y_3710	371.030	{ 9 Cts/S	60404	252.09	0.41734	60582	60226

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60653-a-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:42:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0005	0.0002	38.78	0.0004	0.0006
Al3082	308.215	{1 In2306	ppm	-0.001	0.002	206.5	0.0004	-0.0024
As1890	189.042	{4 Y_2243	ppm	0.0018	0.0005	29.2	0.0014	0.0021
B_2496	249.678	{1 Y_3710	ppm	0.0165	0.0026	15.83	0.0146	0.0183
Ba4554	455.403	{ 7 Y_3710	ppm	0.0602	0.0001	0.1892	0.0601	0.0602
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	17.16	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	74.83	0.3539	0.4729	74.58	75.08
Ca3181	318.128	{1 In2306	ppm	67.38	0.3029	0.4495	67.17	67.6
Cd2288	228.802	{4 Y_2243	ppm	0.0021	0	2.095	0.0021	0.0022
Co2286	228.616	{4 In2306	ppm	0.001	0	1.361	0.001	0.001
Cr2677	267.716	{1 Y_3600	ppm	0.001	0.0002	24.87	0.0011	0.0008
Cu3247	324.754	{1 Y_3600	ppm	0.004	0.0002	4.177	0.0042	0.0039
Fe2404	240.488	{1 In2306	ppm	0.0081	0.0022	27.22	0.0096	0.0065
K_7664	766.490	{ 4 Y_3710	ppm	0.6917	0.0185	2.679	0.7048	0.6786
K_7698	769.896	{ 4 Y_3710	ppm	0.7227	0.0341	4.716	0.7468	0.6986
Li6707	670.784	{ 8 Y_3710	ppm	0.0026	0.0003	10.67	0.0028	0.0024
Mg2790	279.079	{1 Y_3710	ppm	0.9113	0.0242	2.652	0.9284	0.8942
Mn2576	257.610	{1 Y_3600	ppm	0.1372	0.0004	0.2911	0.137	0.1375
Mn2576-2	257.610	{1 Y_3710	ppm	0.1417	0.0009	0.6406	0.1424	0.1411
Mo2020	202.030	{4 Y_2243	ppm	0.0006	0.0001	17.18	0.0005	0.0007
Na5895	589.592	{ 8 Y_3710	ppm	145.6	1.795	1.233	144.3	146.9
Na8183	818.326	{ 4 Y_3710	ppm	152.4	0.2396	0.1572	152.2	152.6
Ni2316	231.604	{4 In2306	ppm	0.002	0.0001	6.688	0.0019	0.0021
P_1782	178.284	{4 In2306	ppm	0.0099	0.0004	3.726	0.0101	0.0096
Pb2203	220.353	{4 In2306	ppm	0.6853	0.0164	2.389	0.6737	0.6969
S_1820	182.034	{4 Y_2243	ppm	-49.03	1.753	3.575	-47.79	-50.27
Sb2068	206.833	{4 Y_2243	ppm	0.0004	0.0008	201.5	0.001	-0.0002
Se1960	196.090	{4 Y_2243	ppm	0.0004	0.0004	97.08	0.0001	0.0006
Si2516	251.611	{1 Y_3710	ppm	1.014	0.0119	1.169	1.006	1.023
Sn1899	189.989	{4 In2306	ppm	0.0008	0.0002	28.42	0.0006	0.001
Sr4215	421.552	{ 8 Y_3710	ppm	0.1427	0.0002	0.1501	0.1429	0.1425
Ti3349	334.904	{1 Y_3600	ppm	0.0004	0.0003	73.18	0.0002	0.0006
Tl1908	190.856	{4 In2306	ppm	-0.0002	0.0005	237.9	-0.0005	0.0001
V_2924	292.402	{1 Y_3600	ppm	0.0001	0.0001	124.5	0.0001	0
Zn2062	206.200	{4 In2306	ppm	0.0426	0.0011	2.679	0.0418	0.0434

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1036.5	4.9435	0.47696	1040	1033
In2306	230.606	{4 Cts/S	16347	349.03	2.1351	16594	16100
Y_2243	224.306	{4 Cts/S	20489	411.69	2.0093	20780	20198
Y_3600	360.073	{ 9 Cts/S	192870	138.28	0.0717	192770	192970
Y_3710	371.030	{ 9 Cts/S	59914	20.067	0.03349	59900	59928

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=lb 600-87855/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:44:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0	5.069	0.0006	0.0005
Al3082	308.215 {1	In2306	ppm	-0.009	0.0124	138.3	-0.0178	-0.0002
As1890	189.042 {4	Y_2243	ppm	0.0001	0.0003	206.9	0.0003	-0.0001
B_2496	249.678 {1	Y_3710	ppm	0.0016	0.0007	44.9	0.0011	0.0021
Ba4554	455.403 {	Y_3710	ppm	0.0001	0	35.78	0.0002	0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	353.8	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0047	0.0026	54.66	-0.0065	-0.0029
Ca3181	318.128 {1	In2306	ppm	0.0305	0.0009	3.022	0.0312	0.0299
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	29.21	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0002	0	19.36	0.0001	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0004	472.6	0.0004	-0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0036	0.0003	8.019	0.0034	0.0038
Fe2404	240.488 {1	In2306	ppm	0.0054	0.0032	59.62	0.0077	0.0031
K_7664	766.490 {	Y_3710	ppm	0.0102	0.0026	25.8	0.0083	0.0121
K_7698	769.896 {	Y_3710	ppm	-0.0235	0.0252	107.3	-0.0413	-0.0057
Li6707	670.784 {	Y_3710	ppm	0.0003	0.0008	283.8	0.0008	-0.0003
Mg2790	279.079 {1	Y_3710	ppm	-0.0048	0.0028	58.75	-0.0068	-0.0028
Mn2576	257.610 {1	Y_3600	ppm	0.0013	0	1.277	0.0013	0.0014
Mn2576-2	257.610 {1	Y_3710	ppm	0.0016	0.0004	24.11	0.0013	0.0018
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0001	194.1	0.0002	0
Na5895	589.592 {	Y_3710	ppm	0.2304	0.01	4.362	0.2375	0.2233
Na8183	818.326 {	Y_3710	ppm	0.1845	0.0653	35.43	0.1382	0.2307
Ni2316	231.604 {4	In2306	ppm	0.0004	0.0002	63.23	0.0006	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0024	0.0004	16.87	-0.0027	-0.0021
Pb2203	220.353 {4	In2306	ppm	0.0009	0.0006	71.65	0.0004	0.0013
S_1820	182.034 {4	Y_2243	ppm	0.0131	0.0157	119.1	0.0021	0.0242
Sb2068	206.833 {4	Y_2243	ppm	0.0002	0.0008	438.7	-0.0004	0.0007
Se1960	196.090 {4	Y_2243	ppm	0.0015	0.0004	26.63	0.0018	0.0012
Si2516	251.611 {1	Y_3710	ppm	-0.0025	0.0021	81.05	-0.0011	-0.004
Sn1899	189.989 {4	In2306	ppm	0.0003	0.0003	102.6	0.0001	0.0005
Sr4215	421.552 {	Y_3710	ppm	0	0	88.16	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0002	103.1	-0.0001	-0.0004
Tl1908	190.856 {4	In2306	ppm	-0.002	0.0015	73.82	-0.001	-0.0031
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0002	283.8	-0.0001	0.0002
Zn2062	206.200 {4	In2306	ppm	0.0028	0	0.9211	0.0028	0.0028

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1098.2	16.016	1.4584	1109.5	1086.9
In2306	230.606 {4	Cts/S	19548	140.34	0.71792	19647	19448
Y_2243	224.306 {4	Cts/S	22158	133.35	0.60183	22252	22064
Y_3600	360.073 {	Cts/S	209100	210.06	0.10046	209240	208950
Y_3710	371.030 {	Cts/S	62799	75.163	0.11969	62852	62746

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60702-a-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:47:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.001	0.0003	29.59	0.0012	0.0008
Al3082	308.215	{1 In2306	ppm	0.1226	0.0063	5.168	0.1271	0.1181
As1890	189.042	{4 Y_2243	ppm	0.0013	0.0001	11.23	0.0012	0.0014
B_2496	249.678	{1 Y_3710	ppm	0.0254	0.0013	5.084	0.0263	0.0245
Ba4554	455.403	{ 7 Y_3710	ppm	0.0937	0.0064	6.864	0.0983	0.0892
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	39.26	0.0002	0.0001
Ca3158	315.887	{1 In2306	ppm	128.4	8.697	6.771	134.6	122.3
Ca3181	318.128	{1 In2306	ppm	114.6	7.685	6.703	120.1	109.2
Cd2288	228.802	{4 Y_2243	ppm	0.0066	0.0001	2.046	0.0067	0.0065
Co2286	228.616	{4 In2306	ppm	0.0031	0.0001	2.731	0.0032	0.0031
Cr2677	267.716	{1 Y_3600	ppm	0.0014	0.0001	10.22	0.0013	0.0016
Cu3247	324.754	{1 Y_3600	ppm	0.0082	0.0001	1.209	0.0081	0.0082
Fe2404	240.488	{1 In2306	ppm	0.0221	0.001	4.416	0.0228	0.0214
K_7664	766.490	{ 4 Y_3710	ppm	0.8224	0.0755	9.177	0.8758	0.769
K_7698	769.896	{ 4 Y_3710	ppm	0.8532	0.122	14.3	0.9395	0.767
Li6707	670.784	{ 8 Y_3710	ppm	0.0051	0.001	19.52	0.0058	0.0044
Mg2790	279.079	{1 Y_3710	ppm	1.133	0.0846	7.463	1.193	1.073
Mn2576	257.610	{1 Y_3600	ppm	0.3069	0.0021	0.68	0.3054	0.3084
Mn2576-2	257.610	{1 Y_3710	ppm	0.3283	0.0241	7.337	0.3453	0.3113
Mo2020	202.030	{4 Y_2243	ppm	-0.0001	0	0.3874	-0.0001	-0.0001
Na5895	589.592	{ 8 Y_3710	ppm	2.493	0.1743	6.989	2.617	2.37
Na8183	818.326	{ 4 Y_3710	ppm	2.468	0.2825	11.45	2.668	2.268
Ni2316	231.604	{4 In2306	ppm	0.0061	0.0002	3.96	0.0062	0.0059
P_1782	178.284	{4 In2306	ppm	0.0002	0.0007	360.8	0.0007	-0.0003
Pb2203	220.353	{4 In2306	ppm	16.91	0.1957	1.158	17.04	16.77
S_1820	182.034	{4 Y_2243	ppm	-123.9	1.315	1.061	-124.8	-123
Sb2068	206.833	{4 Y_2243	ppm	-0.0011	0.0003	27.24	-0.0009	-0.0013
Se1960	196.090	{4 Y_2243	ppm	0.0015	0.0003	21.81	0.0012	0.0017
Si2516	251.611	{1 Y_3710	ppm	0.8662	0.0651	7.51	0.9122	0.8202
Sn1899	189.989	{4 In2306	ppm	0.0004	0.0002	63.03	0.0002	0.0005
Sr4215	421.552	{ 8 Y_3710	ppm	0.1982	0.0146	7.389	0.2086	0.1879
Ti3349	334.904	{1 Y_3600	ppm	0.0007	0.0004	58.62	0.0004	0.001
Tl1908	190.856	{4 In2306	ppm	-0.0025	0.0002	9.848	-0.0023	-0.0027
V_2924	292.402	{1 Y_3600	ppm	0	0.0002	384.4	-0.0001	0.0001
Zn2062	206.200	{4 In2306	ppm	0.5512	0.0064	1.16	0.5557	0.5467

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1015.1	52.919	5.2132	977.67	1052.5
In2306	230.606	{4 Cts/S	17528	139.35	0.79502	17429	17627
Y_2243	224.306	{4 Cts/S	21084	192.02	0.91073	20948	21220
Y_3600	360.073	{ 9 Cts/S	198130	1168.5	0.58976	198960	197310
Y_3710	371.030	{ 9 Cts/S	58533	3450.2	5.8945	56093	60973

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60653-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:49:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0003	49	0.0004	0.0008
Al3082	308.215 {1	In2306	ppm	0.0408	0.0083	20.45	0.0349	0.0467
As1890	189.042 {4	Y_2243	ppm	0.0001	0.0003	435.8	0.0002	-0.0001
B_2496	249.678 {1	Y_3710	ppm	0.0217	0.0001	0.5386	0.0216	0.0218
Ba4554	455.403 {	Y_3710	ppm	0.1204	0.0003	0.2345	0.1206	0.1202
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	36.79	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	159	0.54	0.3397	158.6	159.3
Ca3181	318.128 {1	In2306	ppm	142.6	0.2173	0.1524	142.4	142.7
Cd2288	228.802 {4	Y_2243	ppm	0.0021	0.0001	5.101	0.0021	0.002
Co2286	228.616 {4	In2306	ppm	0.0042	0	0.5823	0.0042	0.0042
Cr2677	267.716 {1	Y_3600	ppm	0.0012	0.0003	20.25	0.0014	0.0011
Cu3247	324.754 {1	Y_3600	ppm	0.0067	0.0001	1.791	0.0066	0.0068
Fe2404	240.488 {1	In2306	ppm	0.0083	0.0011	13.21	0.0091	0.0075
K_7664	766.490 {	Y_3710	ppm	0.52	0.0081	1.559	0.5257	0.5142
K_7698	769.896 {	Y_3710	ppm	0.5158	0.0132	2.567	0.5251	0.5064
Li6707	670.784 {	Y_3710	ppm	0.0053	0.001	19.33	0.006	0.0046
Mg2790	279.079 {1	Y_3710	ppm	2.027	0.0128	0.6296	2.037	2.018
Mn2576	257.610 {1	Y_3600	ppm	0.5046	0.0084	1.667	0.5105	0.4986
Mn2576-2	257.610 {1	Y_3710	ppm	0.519	0.0041	0.7962	0.5161	0.5219
Mo2020	202.030 {4	Y_2243	ppm	0	0	42.92	0	-0.0001
Na5895	589.592 {	Y_3710	ppm	2.343	0.0092	0.3911	2.349	2.336
Na8183	818.326 {	Y_3710	ppm	2.458	0.0427	1.739	2.427	2.488
Ni2316	231.604 {4	In2306	ppm	0.0058	0.0001	1.076	0.0058	0.0057
P_1782	178.284 {4	In2306	ppm	0	0.0006	7472	0.0004	-0.0005
Pb2203	220.353 {4	In2306	ppm	3.632	0.0066	0.1808	3.628	3.637
S_1820	182.034 {4	Y_2243	ppm	-68.7	0.3991	0.581	-68.42	-68.98
Sb2068	206.833 {4	Y_2243	ppm	-0.0014	0.0007	52.34	-0.002	-0.0009
Se1960	196.090 {4	Y_2243	ppm	0.0019	0.0009	50.05	0.0012	0.0025
Si2516	251.611 {1	Y_3710	ppm	1.488	0.0166	1.116	1.476	1.5
Sn1899	189.989 {4	In2306	ppm	0	0	160.1	0	0
Sr4215	421.552 {	Y_3710	ppm	0.2687	0.0007	0.2675	0.2682	0.2693
Ti3349	334.904 {1	Y_3600	ppm	0.0008	0.0001	17.22	0.0009	0.0007
Tl1908	190.856 {4	In2306	ppm	0	0.0009	3162	0.0007	-0.0006
V_2924	292.402 {1	Y_3600	ppm	0	0.0003	616	0.0002	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.0873	0.0001	0.1634	0.0872	0.0874

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1051.9	5.574	0.52988	1055.9	1048
In2306	230.606 {4	Cts/S	17363	4.5719	0.02633	17360	17367
Y_2243	224.306 {4	Cts/S	21100	19.612	0.09295	21114	21086
Y_3600	360.073 {	Cts/S	199070	2079.8	1.0447	197600	200540
Y_3710	371.030 {	Cts/S	60721	542.7	0.89376	61105	60337

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=PDS 600-60702-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:51:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5113	0.0002	0.0467	0.5111	0.5115
Al3082	308.215	{1 In2306	ppm	9.95	0.0034	0.0342	9.952	9.947
As1890	189.042	{4 Y_2243	ppm	1.043	0.0047	0.4524	1.04	1.047
B_2496	249.678	{1 Y_3710	ppm	0.9908	0.0038	0.3874	0.9935	0.9881
Ba4554	455.403	{ 7 Y_3710	ppm	1.06	0.0005	0.0466	1.06	1.06
Be3130	313.042	{1 Y_3710	ppm	0.4821	0.0007	0.1516	0.4816	0.4826
Ca3158	315.887	{1 In2306	ppm	56.02	0.4415	0.7882	55.71	56.33
Ca3181	318.128	{1 In2306	ppm	50.53	0.1966	0.3892	50.39	50.67
Cd2288	228.802	{4 Y_2243	ppm	0.5084	0.0002	0.0479	0.5082	0.5086
Co2286	228.616	{4 In2306	ppm	0.9643	0.0025	0.2565	0.9625	0.966
Cr2677	267.716	{1 Y_3600	ppm	0.9476	0.0004	0.0411	0.9473	0.9478
Cu3247	324.754	{1 Y_3600	ppm	1.005	0.0003	0.0252	1.005	1.005
Fe2404	240.488	{1 In2306	ppm	9.718	0.0373	0.3839	9.691	9.744
K_7664	766.490	{ 4 Y_3710	ppm	10.23	0.0096	0.0942	10.24	10.22
K_7698	769.896	{ 4 Y_3710	ppm	10.51	0.0327	0.3112	10.48	10.53
Li6707	670.784	{ 8 Y_3710	ppm	1.008	0.0028	0.2803	1.01	1.006
Mg2790	279.079	{1 Y_3710	ppm	10.06	0.0582	0.5787	10.02	10.1
Mn2576	257.610	{1 Y_3600	ppm	1.105	0.003	0.2726	1.103	1.107
Mn2576-2	257.610	{1 Y_3710	ppm	1.118	0.0128	1.143	1.109	1.127
Mo2020	202.030	{4 Y_2243	ppm	1.036	0.0005	0.0489	1.036	1.036
Na5895	589.592	{ 8 Y_3710	ppm	151.1	3.04	2.012	148.9	153.2
Na8183	818.326	{ 4 Y_3710	ppm	156.8	0.4	0.2551	156.6	157.1
Ni2316	231.604	{4 In2306	ppm	0.9321	0.0028	0.2998	0.9302	0.9341
P_1782	178.284	{4 In2306	ppm	1.071	0.002	0.1889	1.072	1.07
Pb2203	220.353	{4 In2306	ppm	12.7	0.0323	0.2541	12.67	12.72
S_1820	182.034	{4 Y_2243	ppm	-52.64	0.283	0.5377	-52.84	-52.44
Sb2068	206.833	{4 Y_2243	ppm	0.9962	0	0.005	0.9962	0.9962
Se1960	196.090	{4 Y_2243	ppm	1.073	0.0029	0.2727	1.071	1.075
Si2516	251.611	{1 Y_3710	ppm	1.759	0.0077	0.435	1.754	1.765
Sn1899	189.989	{4 In2306	ppm	1.007	0.0023	0.2303	1.005	1.009
Sr4215	421.552	{ 8 Y_3710	ppm	0.6088	0.0009	0.1401	0.6082	0.6094
Ti3349	334.904	{1 Y_3600	ppm	0.9382	0.0002	0.0247	0.9383	0.938
Tl1908	190.856	{4 In2306	ppm	0.9215	0.0047	0.5094	0.9182	0.9248
V_2924	292.402	{1 Y_3600	ppm	0.927	0.0016	0.1713	0.9282	0.9259
Zn2062	206.200	{4 In2306	ppm	1.193	0.0052	0.437	1.189	1.197

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1041.7	5.8884	0.56527	1045.9	1037.5
In2306	230.606	{4 Cts/S	16388	7.0599	0.04308	16393	16383
Y_2243	224.306	{4 Cts/S	20912	11.81	0.05647	20903	20920
Y_3600	360.073	{ 9 Cts/S	193850	337.12	0.17391	193610	194090
Y_3710	371.030	{ 9 Cts/S	60787	469.61	0.77255	61119	60455

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=SD 600-60702-a-1-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:53:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0002	59.49	0.0006	0.0002
Al3082	308.215 {1	In2306	ppm	-0.0145	0.0045	30.78	-0.0114	-0.0177
As1890	189.042 {4	Y_2243	ppm	0.0018	0.0005	29.53	0.0021	0.0014
B_2496	249.678 {1	Y_3710	ppm	0.0104	0.0001	1.412	0.0103	0.0105
Ba4554	455.403 {	Y_3710	ppm	0.0169	0	0.2666	0.017	0.0169
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0.0001	92.82	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	9.222	0.0267	0.289	9.241	9.204
Ca3181	318.128 {1	In2306	ppm	8.265	0.0376	0.4548	8.292	8.239
Cd2288	228.802 {4	Y_2243	ppm	0.0008	0.0004	43.41	0.0006	0.0011
Co2286	228.616 {4	In2306	ppm	0.0009	0.001	110.7	0.0002	0.0015
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	16.46	0.0002	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0043	0	0.6636	0.0043	0.0043
Fe2404	240.488 {1	In2306	ppm	0.0061	0.0029	48.61	0.0081	0.004
K_7664	766.490 {	Y_3710	ppm	0.1211	0.0087	7.22	0.1272	0.1149
K_7698	769.896 {	Y_3710	ppm	0.1453	0.0394	27.12	0.1731	0.1174
Li6707	670.784 {	Y_3710	ppm	0.0001	0.0005	635.7	0.0004	-0.0003
Mg2790	279.079 {1	Y_3710	ppm	0.1726	0.0009	0.5462	0.1719	0.1732
Mn2576	257.610 {1	Y_3600	ppm	0.0149	0.0001	0.8509	0.0148	0.015
Mn2576-2	257.610 {1	Y_3710	ppm	0.0153	0.0004	2.575	0.0151	0.0156
Mo2020	202.030 {4	Y_2243	ppm	0.0033	0.0018	54.51	0.002	0.0046
Na5895	589.592 {	Y_3710	ppm	28.89	0.2142	0.7414	29.04	28.74
Na8183	818.326 {	Y_3710	ppm	29.85	0.1287	0.4314	29.94	29.75
Ni2316	231.604 {4	In2306	ppm	0.0014	0.0009	61.14	0.0008	0.002
P_1782	178.284 {4	In2306	ppm	-0.0012	0.0001	6.003	-0.0011	-0.0012
Pb2203	220.353 {4	In2306	ppm	2.268	0.0202	0.8907	2.254	2.282
S_1820	182.034 {4	Y_2243	ppm	-9.608	0.0159	0.166	-9.597	-9.619
Sb2068	206.833 {4	Y_2243	ppm	0.0038	0.0013	33.57	0.0029	0.0047
Se1960	196.090 {4	Y_2243	ppm	0.0023	0.0009	38.82	0.0017	0.003
Si2516	251.611 {1	Y_3710	ppm	0.1688	0.0038	2.258	0.1661	0.1714
Sn1899	189.989 {4	In2306	ppm	0.0012	0.0016	128.3	0.0001	0.0023
Sr4215	421.552 {	Y_3710	ppm	0.0214	0.0001	0.2768	0.0214	0.0213
Ti3349	334.904 {1	Y_3600	ppm	0.0005	0.0002	37.17	0.0004	0.0007
Tl1908	190.856 {4	In2306	ppm	0.0005	0.0004	87.75	0.0002	0.0008
V_2924	292.402 {1	Y_3600	ppm	0.0001	0	71.34	0.0001	0
Zn2062	206.200 {4	In2306	ppm	0.045	0.0011	2.475	0.0442	0.0457

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1068.5	4.7344	0.44309	1065.1	1071.8
In2306	230.606 {4	Cts/S	18603	156.69	0.84229	18714	18492
Y_2243	224.306 {4	Cts/S	21941	184.1	0.83906	22071	21811
Y_3600	360.073 {	Cts/S	202510	169	0.08345	202390	202630
Y_3710	371.030 {	Cts/S	60954	3.7702	0.00619	60951	60957

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=mb 600-87895/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:56:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0004	0	8.982	0.0004	0.0004
Al3082	308.215	{1 In2306	ppm	-0.011	0.0018	16.17	-0.0123	-0.0097
As1890	189.042	{4 Y_2243	ppm	-0.0008	0.0001	12.3	-0.0008	-0.0009
B_2496	249.678	{1 Y_3710	ppm	0.0032	0.0013	40.84	0.0023	0.0041
Ba4554	455.403	{ ï Y_3710	ppm	0.0001	0.0001	80.67	0	0.0002
Be3130	313.042	{1 Y_3710	ppm	0	0	153.8	0	0
Ca3158	315.887	{1 In2306	ppm	0.0021	0.0077	368.1	0.0075	-0.0033
Ca3181	318.128	{1 In2306	ppm	0.0203	0.0033	16.29	0.018	0.0227
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	28.22	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0	14.3	0.0001	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0002	0.0001	59.51	0.0001	0.0002
Cu3247	324.754	{1 Y_3600	ppm	0.0038	0.0002	5.741	0.004	0.0037
Fe2404	240.488	{1 In2306	ppm	0.0039	0.0043	109.8	0.0009	0.007
K_7664	766.490	{ ⁄ Y_3710	ppm	0.0496	0.0165	33.32	0.0613	0.0379
K_7698	769.896	{ ⁄ Y_3710	ppm	0.0101	0.0028	28.18	0.0121	0.0081
Li6707	670.784	{ ⁋ Y_3710	ppm	-0.0011	0.0003	28.74	-0.0009	-0.0013
Mg2790	279.079	{1 Y_3710	ppm	-0.003	0.0054	184.1	0.0009	-0.0068
Mn2576	257.610	{1 Y_3600	ppm	0.0011	0	3.532	0.001	0.0011
Mn2576-2	257.610	{1 Y_3710	ppm	0.0018	0.0005	26.83	0.0021	0.0014
Mo2020	202.030	{4 Y_2243	ppm	0.0002	0.0002	94	0.0001	0.0003
Na5895	589.592	{ ⁋ Y_3710	ppm	0.0074	0.002	27.42	0.0089	0.006
Na8183	818.326	{ ⁄ Y_3710	ppm	-0.0948	0.0559	58.94	-0.0553	-0.1344
Ni2316	231.604	{4 In2306	ppm	0.0003	0.0001	43.9	0.0002	0.0004
P_1782	178.284	{4 In2306	ppm	-0.0035	0.0006	17.9	-0.0031	-0.0039
Pb2203	220.353	{4 In2306	ppm	0.0033	0.0023	68.5	0.0017	0.0049
S_1820	182.034	{4 Y_2243	ppm	-2.49	0.1044	4.191	-2.417	-2.564
Sb2068	206.833	{4 Y_2243	ppm	-0.0002	0.0018	1073	0.0011	-0.0014
Se1960	196.090	{4 Y_2243	ppm	0.001	0.0005	47.86	0.0014	0.0007
Si2516	251.611	{1 Y_3710	ppm	-0.0005	0.0048	928.9	-0.0039	0.0029
Sn1899	189.989	{4 In2306	ppm	0.0001	0.0002	351.3	-0.0001	0.0002
Sr4215	421.552	{ ⁋ Y_3710	ppm	0	0.0001	356.9	0.0001	0
Ti3349	334.904	{1 Y_3600	ppm	0	0.0001	9006	0	0
Tl1908	190.856	{4 In2306	ppm	-0.002	0.0007	34.28	-0.0015	-0.0024
V_2924	292.402	{1 Y_3600	ppm	0	0.0003	762.2	0.0002	-0.0002
Zn2062	206.200	{4 In2306	ppm	0.0026	0.0001	4.609	0.0025	0.0027

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1098	5.4311	0.49463	1094.2	1101.9
In2306	230.606	{4 Cts/S	19345	66.703	0.34481	19392	19298
Y_2243	224.306	{4 Cts/S	21907	69.662	0.31799	21956	21858
Y_3600	360.073	{ ⁹ Cts/S	203160	9879.9	4.8632	210140	196170
Y_3710	371.030	{ ⁹ Cts/S	62211	76.883	0.12358	62157	62266

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 8:58:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2575	0.001	0.4072	0.2582	0.2567
Al3082	308.215 {1	In2306	ppm	2.504	0.0755	3.013	2.451	2.557
As1890	189.042 {4	Y_2243	ppm	0.5154	0.002	0.3961	0.514	0.5169
B_2496	249.678 {1	Y_3710	ppm	0.4912	0.0183	3.718	0.4783	0.5042
Ba4554	455.403 {	Y_3710	ppm	0.5018	0.0128	2.56	0.4927	0.5109
Be3130	313.042 {1	Y_3710	ppm	0.5016	0.0155	3.097	0.4906	0.5126
Ca3158	315.887 {1	In2306	ppm	13.77	0.397	2.884	13.49	14.05
Ca3181	318.128 {1	In2306	ppm	12.22	0.3365	2.754	11.98	12.46
Cd2288	228.802 {4	Y_2243	ppm	0.5013	0.0009	0.1706	0.5019	0.5007
Co2286	228.616 {4	In2306	ppm	0.4732	0.0017	0.3564	0.4743	0.472
Cr2677	267.716 {1	Y_3600	ppm	0.4885	0.0001	0.0114	0.4885	0.4884
Cu3247	324.754 {1	Y_3600	ppm	0.5022	0.0043	0.8509	0.5052	0.4991
Fe2404	240.488 {1	In2306	ppm	2.504	0.0833	3.327	2.445	2.563
K_7664	766.490 {	Y_3710	ppm	12.44	0.2777	2.232	12.25	12.64
K_7698	769.896 {	Y_3710	ppm	12.75	0.2723	2.135	12.56	12.95
Li6707	670.784 {	Y_3710	ppm	0.5182	0.0088	1.707	0.5119	0.5244
Mg2790	279.079 {1	Y_3710	ppm	4.838	0.1714	3.543	4.717	4.959
Mn2576	257.610 {1	Y_3600	ppm	0.5417	0.0029	0.53	0.5438	0.5397
Mn2576-2	257.610 {1	Y_3710	ppm	0.5611	0.0156	2.789	0.55	0.5721
Mo2020	202.030 {4	Y_2243	ppm	0.5425	0.0018	0.327	0.5438	0.5413
Na5895	589.592 {	Y_3710	ppm	12.73	0.2955	2.321	12.52	12.94
Na8183	818.326 {	Y_3710	ppm	12.95	0.2793	2.156	12.76	13.15
Ni2316	231.604 {4	In2306	ppm	0.4544	0.001	0.2289	0.4551	0.4537
P_1782	178.284 {4	In2306	ppm	0.48	0	0.0057	0.48	0.4799
Pb2203	220.353 {4	In2306	ppm	0.4849	0.0009	0.1894	0.4855	0.4842
S_1820	182.034 {4	Y_2243	ppm	-170.9	0.9893	0.5788	-171.6	-170.2
Sb2068	206.833 {4	Y_2243	ppm	0.499	0.0007	0.1336	0.4995	0.4985
Se1960	196.090 {4	Y_2243	ppm	0.5248	0.0002	0.0378	0.5246	0.5249
Si2516	251.611 {1	Y_3710	ppm	0.9094	0.0419	4.611	0.8797	0.939
Sn1899	189.989 {4	In2306	ppm	0.4985	0.0019	0.3809	0.4998	0.4972
Sr4215	421.552 {	Y_3710	ppm	0.2647	0.0067	2.513	0.26	0.2694
Ti3349	334.904 {1	Y_3600	ppm	0.4755	0.0017	0.3592	0.4767	0.4743
Tl1908	190.856 {4	In2306	ppm	0.4676	0.0041	0.8715	0.4705	0.4647
V_2924	292.402 {1	Y_3600	ppm	0.4745	0.0009	0.191	0.4751	0.4738
Zn2062	206.200 {4	In2306	ppm	0.4641	0.0025	0.5332	0.4658	0.4623

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1052.2	30.261	2.8759	1073.6	1030.8
In2306	230.606 {4	Cts/S	18411	23.105	0.1255	18427	18394
Y_2243	224.306 {4	Cts/S	21862	50.088	0.22911	21898	21827
Y_3600	360.073 {	Cts/S	203060	562.2	0.27686	202660	203460
Y_3710	371.030 {	Cts/S	60090	1928.3	3.2091	61454	58727

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:00:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0054	0.0001	1.204	0.0054	0.0055
Al3082	308.215	{1 In2306	ppm	0.0831	0.0181	21.82	0.0702	0.0959
As1890	189.042	{4 Y_2243	ppm	0.0105	0.0001	0.9271	0.0105	0.0104
B_2496	249.678	{1 Y_3710	ppm	0.0116	0.0008	6.757	0.011	0.0121
Ba4554	455.403	{ 7 Y_3710	ppm	0.0097	0.0005	5.452	0.0094	0.0101
Be3130	313.042	{1 Y_3710	ppm	0.0049	0.0002	4.993	0.0047	0.005
Ca3158	315.887	{1 In2306	ppm	0.1189	0.0011	0.9063	0.1181	0.1196
Ca3181	318.128	{1 In2306	ppm	0.1277	0.0051	4.025	0.1241	0.1314
Cd2288	228.802	{4 Y_2243	ppm	0.0055	0.0006	11.82	0.005	0.0059
Co2286	228.616	{4 In2306	ppm	0.0098	0.0011	11.02	0.009	0.0105
Cr2677	267.716	{1 Y_3600	ppm	0.0101	0.0002	1.815	0.0099	0.0102
Cu3247	324.754	{1 Y_3600	ppm	0.0148	0	0.1893	0.0148	0.0147
Fe2404	240.488	{1 In2306	ppm	0.0977	0.0061	6.245	0.0934	0.102
K_7664	766.490	{ 4 Y_3710	ppm	0.5791	0.0481	8.314	0.5451	0.6132
K_7698	769.896	{ 4 Y_3710	ppm	0.5899	0.0477	8.081	0.5562	0.6236
Li6707	670.784	{ 8 Y_3710	ppm	0.0101	0.0002	2.077	0.0099	0.0102
Mg2790	279.079	{1 Y_3710	ppm	0.0963	0.0076	7.873	0.091	0.1017
Mn2576	257.610	{1 Y_3600	ppm	0.0113	0	0.0678	0.0113	0.0113
Mn2576-2	257.610	{1 Y_3710	ppm	0.0117	0.0001	1.112	0.0118	0.0116
Mo2020	202.030	{4 Y_2243	ppm	0.0128	0.0016	12.21	0.0117	0.0139
Na5895	589.592	{ 8 Y_3710	ppm	0.583	0.026	4.452	0.5646	0.6013
Na8183	818.326	{ 4 Y_3710	ppm	0.6168	0.1172	18.99	0.534	0.6997
Ni2316	231.604	{4 In2306	ppm	0.0097	0.001	10.07	0.009	0.0104
P_1782	178.284	{4 In2306	ppm	0.0048	0.0012	24.18	0.004	0.0056
Pb2203	220.353	{4 In2306	ppm	0.0102	0.0009	9.25	0.0096	0.0109
S_1820	182.034	{4 Y_2243	ppm	0.6882	0.1609	23.38	0.5745	0.802
Sb2068	206.833	{4 Y_2243	ppm	0.0115	0.002	17.77	0.0101	0.013
Se1960	196.090	{4 Y_2243	ppm	0.012	0.0004	3.382	0.0117	0.0122
Si2516	251.611	{1 Y_3710	ppm	0.0062	0.0044	71.17	0.0031	0.0093
Sn1899	189.989	{4 In2306	ppm	0.0104	0.0011	10.78	0.0096	0.0112
Sr4215	421.552	{ 8 Y_3710	ppm	0.0052	0.0002	4.343	0.005	0.0053
Ti3349	334.904	{1 Y_3600	ppm	0.0096	0.0004	4.31	0.0099	0.0094
Tl1908	190.856	{4 In2306	ppm	0.0108	0.0011	10.37	0.01	0.0116
V_2924	292.402	{1 Y_3600	ppm	0.0095	0.0001	0.9153	0.0096	0.0095
Zn2062	206.200	{4 In2306	ppm	0.0095	0.0009	9.28	0.0089	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1099.4	37.775	3.4359	1126.1	1072.7
In2306	230.606	{4 Cts/S	19527	883.74	4.5256	20152	18902
Y_2243	224.306	{4 Cts/S	22213	1013.4	4.5624	22930	21496
Y_3600	360.073	{ 9 Cts/S	207350	288.36	0.13907	207550	207140
Y_3710	371.030	{ 9 Cts/S	62302	1954	3.1363	63684	60920

[Sample Header]

Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:03:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0004	84.9	0.0002	0.0007
Al3082	308.215 {1	In2306	ppm	-0.0094	0.0112	118.8	-0.0173	-0.0015
As1890	189.042 {4	Y_2243	ppm	-0.0007	0.0006	88.91	-0.0002	-0.0011
B_2496	249.678 {1	Y_3710	ppm	-0.0008	0.0027	323	0.0011	-0.0028
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	31.17	-0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	138.6	0	0
Ca3158	315.887 {1	In2306	ppm	0.0051	0.0071	139	0.0101	0.0001
Ca3181	318.128 {1	In2306	ppm	0.0247	0.0074	29.88	0.0195	0.03
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	15.32	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	59.81	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0	0.0001	561.9	-0.0001	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0044	0.0003	5.83	0.0042	0.0046
Fe2404	240.488 {1	In2306	ppm	0.005	0.0013	26.68	0.0041	0.006
K_7664	766.490 {	Y_3710	ppm	-0.0075	0.012	159	0.0009	-0.016
K_7698	769.896 {	Y_3710	ppm	-0.0136	0.0421	310.4	0.0162	-0.0434
Li6707	670.784 {	Y_3710	ppm	-0.0001	0.0005	370.4	0.0002	-0.0005
Mg2790	279.079 {1	Y_3710	ppm	-0.0042	0.0166	393.7	0.0075	-0.016
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0	31.36	-0.0001	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0006	0.0002	36.04	0.0004	0.0007
Mo2020	202.030 {4	Y_2243	ppm	0	0.0001	232.8	0	0.0001
Na5895	589.592 {	Y_3710	ppm	-0.0119	0.0003	2.149	-0.0117	-0.0121
Na8183	818.326 {	Y_3710	ppm	-0.0691	0.0391	56.5	-0.0415	-0.0967
Ni2316	231.604 {4	In2306	ppm	0.0004	0	0.8502	0.0004	0.0004
P_1782	178.284 {4	In2306	ppm	-0.0033	0.0005	15.08	-0.0029	-0.0036
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0001	26.67	0.0003	0.0004
S_1820	182.034 {4	Y_2243	ppm	0.488	0.1879	38.51	0.6208	0.3551
Sb2068	206.833 {4	Y_2243	ppm	-0.0001	0	28.25	-0.0002	-0.0001
Se1960	196.090 {4	Y_2243	ppm	0	0.0002	1007	0.0002	-0.0001
Si2516	251.611 {1	Y_3710	ppm	0.0008	0.0048	619.3	-0.0026	0.0041
Sn1899	189.989 {4	In2306	ppm	-0.0003	0.0002	44.98	-0.0004	-0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0	7.567	0	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0003	4295	0.0003	-0.0002
Tl1908	190.856 {4	In2306	ppm	-0.0011	0.0015	130.9	-0.0001	-0.0022
V_2924	292.402 {1	Y_3600	ppm	0	0.0002	515.3	-0.0002	0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	17	-0.0003	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1092.1	9.9279	0.90911	1085	1099.1
In2306	230.606 {4	Cts/S	19523	85.514	0.43802	19462	19583
Y_2243	224.306 {4	Cts/S	22102	102.97	0.4659	22030	22175
Y_3600	360.073 {	Cts/S	207730	1048.6	0.5048	206990	208470
Y_3710	371.030 {	Cts/S	61713	480.23	0.77817	61373	62052

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87895/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:05:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.534	0.0078	1.464	0.5285	0.5395
Al3082	308.215	{1 In2306	ppm	10.29	0.078	0.7577	10.24	10.35
As1890	189.042	{4 Y_2243	ppm	1.085	0.0176	1.625	1.073	1.098
B_2496	249.678	{1 Y_3710	ppm	0.9875	0.0003	0.0352	0.9873	0.9878
Ba4554	455.403	{ 7 Y_3710	ppm	1.033	0.0046	0.4469	1.029	1.036
Be3130	313.042	{1 Y_3710	ppm	0.5124	0.0014	0.2718	0.5114	0.5134
Ca3158	315.887	{1 In2306	ppm	11.31	0.0195	0.1723	11.3	11.32
Ca3181	318.128	{1 In2306	ppm	9.931	0.0317	0.3195	9.909	9.954
Cd2288	228.802	{4 Y_2243	ppm	0.5262	0.0087	1.656	0.52	0.5323
Co2286	228.616	{4 In2306	ppm	0.9932	0.0146	1.465	0.9829	1.003
Cr2677	267.716	{1 Y_3600	ppm	1.022	0.0141	1.379	1.012	1.032
Cu3247	324.754	{1 Y_3600	ppm	1.078	0.0145	1.346	1.068	1.088
Fe2404	240.488	{1 In2306	ppm	10.19	0.0272	0.2667	10.17	10.21
K_7664	766.490	{ 4 Y_3710	ppm	10.18	0.0442	0.4341	10.15	10.21
K_7698	769.896	{ 4 Y_3710	ppm	10.49	0.1116	1.063	10.41	10.57
Li6707	670.784	{ 8 Y_3710	ppm	0.54	0.0004	0.0691	0.5397	0.5402
Mg2790	279.079	{1 Y_3710	ppm	9.799	0.0529	0.5394	9.762	9.836
Mn2576	257.610	{1 Y_3600	ppm	1.155	0.0168	1.455	1.143	1.167
Mn2576-2	257.610	{1 Y_3710	ppm	1.145	0.0078	0.6794	1.14	1.151
Mo2020	202.030	{4 Y_2243	ppm	1.139	0.019	1.672	1.126	1.153
Na5895	589.592	{ 8 Y_3710	ppm	10.49	0.0438	0.4179	10.46	10.52
Na8183	818.326	{ 4 Y_3710	ppm	10.62	0.0854	0.8038	10.56	10.68
Ni2316	231.604	{4 In2306	ppm	0.9476	0.0139	1.471	0.9377	0.9574
P_1782	178.284	{4 In2306	ppm	-0.0037	0.0004	11.66	-0.0034	-0.004
Pb2203	220.353	{4 In2306	ppm	1.022	0.0138	1.345	1.013	1.032
S_1820	182.034	{4 Y_2243	ppm	-1.897	0.1937	10.21	-2.034	-1.761
Sb2068	206.833	{4 Y_2243	ppm	1.045	0.019	1.814	1.032	1.059
Se1960	196.090	{4 Y_2243	ppm	1.102	0.019	1.724	1.089	1.116
Si2516	251.611	{1 Y_3710	ppm	0.9064	0.0144	1.592	0.8962	0.9166
Sn1899	189.989	{4 In2306	ppm	1.037	0.0136	1.307	1.027	1.046
Sr4215	421.552	{ 8 Y_3710	ppm	0.5476	0.0043	0.7808	0.5446	0.5506
Ti3349	334.904	{1 Y_3600	ppm	0.9932	0.0138	1.386	0.9834	1.003
Tl1908	190.856	{4 In2306	ppm	0.9854	0.0093	0.9448	0.9788	0.992
V_2924	292.402	{1 Y_3600	ppm	0.9908	0.0119	1.206	0.9823	0.9992
Zn2062	206.200	{4 In2306	ppm	0.9647	0.0112	1.162	0.9568	0.9727

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1077.6	3.9442	0.36603	1080.4	1074.8
In2306	230.606	{4 Cts/S	18206	264.37	1.4521	18393	18019
Y_2243	224.306	{4 Cts/S	21732	337.97	1.5551	21971	21493
Y_3600	360.073	{ 9 Cts/S	201300	1982.2	0.98473	202700	199890
Y_3710	371.030	{ 9 Cts/S	62065	212.82	0.3429	62215	61914

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60773-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:08:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0004	54.57	0.0004	0.001
Al3082	308.215 {1	In2306	ppm	0.0833	0.0087	10.44	0.0894	0.0771
As1890	189.042 {4	Y_2243	ppm	0.0467	0.0006	1.238	0.0463	0.0471
B_2496	249.678 {1	Y_3710	ppm	0.6422	0.0021	0.3277	0.6407	0.6437
Ba4554	455.403 {	Y_3710	ppm	0.1011	0.0004	0.3542	0.1008	0.1013
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	18.08	0.0002	0.0001
Ca3158	315.887 {1	In2306	ppm	45.48	0.0994	0.2184	45.41	45.56
Ca3181	318.128 {1	In2306	ppm	40.08	0.1253	0.3125	40.17	39.99
Cd2288	228.802 {4	Y_2243	ppm	0.0007	0.0009	118.2	0.0001	0.0013
Co2286	228.616 {4	In2306	ppm	0.0013	0.0017	134.2	0.0001	0.0025
Cr2677	267.716 {1	Y_3600	ppm	0.0123	0.0002	1.938	0.0121	0.0124
Cu3247	324.754 {1	Y_3600	ppm	0.0132	0.0002	1.447	0.0133	0.013
Fe2404	240.488 {1	In2306	ppm	2.568	0.0083	0.324	2.562	2.574
K_7664	766.490 {	Y_3710	ppm	23.85	0.0068	0.0284	23.86	23.85
K_7698	769.896 {	Y_3710	ppm	24.57	0.0465	0.1893	24.53	24.6
Li6707	670.784 {	Y_3710	ppm	0.0418	0.0009	2.197	0.0424	0.0411
Mg2790	279.079 {1	Y_3710	ppm	8.751	0.0074	0.0848	8.756	8.746
Mn2576	257.610 {1	Y_3600	ppm	0.1368	0.0008	0.5915	0.1374	0.1363
Mn2576-2	257.610 {1	Y_3710	ppm	0.1389	0.0008	0.5439	0.1384	0.1394
Mo2020	202.030 {4	Y_2243	ppm	0.0207	0.0028	13.42	0.0187	0.0226
Na5895	589.592 {	Y_3710	ppm	425	1.933	0.4547	423.6	426.3
Na8183	818.326 {	Y_3710	ppm	454.2	0.0052	0.0011	454.3	454.2
Ni2316	231.604 {4	In2306	ppm	0.0029	0.0018	61.8	0.0016	0.0042
P_1782	178.284 {4	In2306	ppm	5.425	0.0049	0.0896	5.422	5.428
Pb2203	220.353 {4	In2306	ppm	0.0018	0.0008	46.22	0.0012	0.0024
S_1820	182.034 {4	Y_2243	ppm	-27920	15.97	0.0572	-27930	-27910
Sb2068	206.833 {4	Y_2243	ppm	0.0056	0.0026	46.95	0.0038	0.0075
Se1960	196.090 {4	Y_2243	ppm	0.0036	0.0013	35.52	0.0027	0.0046
Si2516	251.611 {1	Y_3710	ppm	11.87	0.0005	0.0041	11.87	11.87
Sn1899	189.989 {4	In2306	ppm	0.0028	0.0023	82.83	0.0012	0.0044
Sr4215	421.552 {	Y_3710	ppm	0.3319	0.0003	0.1035	0.3317	0.3322
Ti3349	334.904 {1	Y_3600	ppm	0.0027	0.0002	6.559	0.0029	0.0026
Tl1908	190.856 {4	In2306	ppm	0.0032	0.003	95.03	0.001	0.0053
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0002	96.64	0.0003	0.0001
Zn2062	206.200 {4	In2306	ppm	0.1333	0.0017	1.28	0.1321	0.1345

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1018.7	1.3131	0.1289	1017.8	1019.7
In2306	230.606 {4	Cts/S	15377	31.465	0.20462	15399	15355
Y_2243	224.306 {4	Cts/S	19989	8.2199	0.04112	19995	19984
Y_3600	360.073 {	Cts/S	183300	1028.6	0.56117	182580	184030
Y_3710	371.030 {	Cts/S	59189	208.87	0.35289	59041	59337

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60668-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:10:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.006	0.0001	1.643	-0.006	-0.0059
Al3082	308.215 {1	In2306	ppm	0.1027	0.0116	11.33	0.1109	0.0945
As1890	189.042 {4	Y_2243	ppm	0.0559	0.0009	1.687	0.0565	0.0552
B_2496	249.678 {1	Y_3710	ppm	1986	113.6	5.721	2066	1905
Ba4554	455.403 {	Y_3710	ppm	0.0287	0.0017	5.912	0.0299	0.0275
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	1675	0	0
Ca3158	315.887 {1	In2306	ppm	0.9287	0.0493	5.313	0.9636	0.8938
Ca3181	318.128 {1	In2306	ppm	0.8576	0.02	2.332	0.8717	0.8435
Cd2288	228.802 {4	Y_2243	ppm	-0.0111	0.0004	3.193	-0.0113	-0.0108
Co2286	228.616 {4	In2306	ppm	-0.0003	0.0001	18.63	-0.0003	-0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0079	0.0005	6.555	0.0083	0.0075
Cu3247	324.754 {1	Y_3600	ppm	0.0316	0	0.0159	0.0316	0.0316
Fe2404	240.488 {1	In2306	ppm	0.0738	0.0055	7.463	0.0776	0.0699
K_7664	766.490 {	Y_3710	ppm	3482	796.8	22.89	4045	2918
K_7698	769.896 {	Y_3710	ppm	10160	1480	14.57	11200	9111
Li6707	670.784 {	Y_3710	ppm	0.0138	0.0014	10.35	0.0149	0.0128
Mg2790	279.079 {1	Y_3710	ppm	0.0338	0.0014	4.215	0.0328	0.0348
Mn2576	257.610 {1	Y_3600	ppm	0.0053	0	0.7206	0.0053	0.0054
Mn2576-2	257.610 {1	Y_3710	ppm	0.0026	0.0002	7.496	0.0028	0.0025
Mo2020	202.030 {4	Y_2243	ppm	0.0126	0.0006	4.55	0.0122	0.013
Na5895	589.592 {	Y_3710	ppm	104.2	6.787	6.515	109	99.38
Na8183	818.326 {	Y_3710	ppm	101.3	6.216	6.137	105.7	96.89
Ni2316	231.604 {4	In2306	ppm	-0.0016	0.0002	11.15	-0.0018	-0.0015
P_1782	178.284 {4	In2306	ppm	6.582	0.0072	0.1095	6.587	6.577
Pb2203	220.353 {4	In2306	ppm	-0.0404	0.0025	6.285	-0.0422	-0.0386
S_1820	182.034 {4	Y_2243	ppm	-514.6	140.1	27.23	-415.5	-613.6
Sb2068	206.833 {4	Y_2243	ppm	-0.025	0.0023	9.351	-0.0267	-0.0233
Se1960	196.090 {4	Y_2243	ppm	-0.0653	0.0015	2.302	-0.0643	-0.0664
Si2516	251.611 {1	Y_3710	ppm	-3.073	0.1979	6.439	-3.213	-2.933
Sn1899	189.989 {4	In2306	ppm	0.0535	0.0014	2.653	0.0545	0.0525
Sr4215	421.552 {	Y_3710	ppm	0.0689	0.0042	6.053	0.0718	0.0659
Ti3349	334.904 {1	Y_3600	ppm	-0.0121	0	0.2305	-0.0121	-0.0122
Tl1908	190.856 {4	In2306	ppm	0.0154	0.0024	15.58	0.0137	0.0171
V_2924	292.402 {1	Y_3600	ppm	0.0014	0.0004	28.47	0.0011	0.0017
Zn2062	206.200 {4	In2306	ppm	0.153	0.0002	0.1373	0.1531	0.1528

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	761.45	35.21	4.6241	736.55	786.34
In2306	230.606 {4	Cts/S	8700.1	9.7137	0.11165	8693.2	8707
Y_2243	224.306 {4	Cts/S	14190	28.011	0.1974	14170	14209
Y_3600	360.073 {	Cts/S	115570	206.11	0.17835	115420	115710
Y_3710	371.030 {	Cts/S	44922	2358.9	5.2511	43254	46590

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60670-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:13:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0025	0.0003	12.65	-0.0023	-0.0028
Al3082	308.215	{1 In2306	ppm	0.5841	0.0437	7.481	0.615	0.5532
As1890	189.042	{4 Y_2243	ppm	0.0358	0.0025	6.962	0.0341	0.0376
B_2496	249.678	{1 Y_3710	ppm	1093	16.86	1.543	1105	1081
Ba4554	455.403	{ 7 Y_3710	ppm	0.6783	0.0208	3.061	0.6929	0.6636
Be3130	313.042	{1 Y_3710	ppm	0	0	86.57	0	0.0001
Ca3158	315.887	{1 In2306	ppm	3.616	0.1147	3.171	3.698	3.535
Ca3181	318.128	{1 In2306	ppm	3.21	0.1197	3.728	3.295	3.126
Cd2288	228.802	{4 Y_2243	ppm	-0.0056	0.0001	1.604	-0.0056	-0.0057
Co2286	228.616	{4 In2306	ppm	-0.001	0.0001	11.69	-0.0011	-0.0009
Cr2677	267.716	{1 Y_3600	ppm	0.0102	0	0.1649	0.0102	0.0102
Cu3247	324.754	{1 Y_3600	ppm	0.0244	0.0001	0.3348	0.0245	0.0244
Fe2404	240.488	{1 In2306	ppm	0.0983	0.0007	0.7256	0.0978	0.0988
K_7664	766.490	{ 4 Y_3710	ppm	3390	187.2	5.522	3523	3258
K_7698	769.896	{ 4 Y_3710	ppm	7411	127.7	1.724	7501	7321
Li6707	670.784	{ 8 Y_3710	ppm	0.0218	0.0009	4.194	0.0225	0.0212
Mg2790	279.079	{1 Y_3710	ppm	0.1553	0.0163	10.5	0.1668	0.1438
Mn2576	257.610	{1 Y_3600	ppm	0.0063	0.0004	7.111	0.0066	0.006
Mn2576-2	257.610	{1 Y_3710	ppm	0.0048	0.0005	10.81	0.0052	0.0045
Mo2020	202.030	{4 Y_2243	ppm	0.0066	0.0003	4.981	0.0064	0.0068
Na5895	589.592	{ 8 Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Na8183	818.326	{ 4 Y_3710	ppm	5542	90.14	1.626	5606	5479
Ni2316	231.604	{4 In2306	ppm	0.0058	0.0001	2.285	0.0057	0.0059
P_1782	178.284	{4 In2306	ppm	3.761	0.0705	1.875	3.711	3.811
Pb2203	220.353	{4 In2306	ppm	-0.0201	0	0.0728	-0.0201	-0.0201
S_1820	182.034	{4 Y_2243	ppm	-3886	44.67	1.149	-3855	-3918
Sb2068	206.833	{4 Y_2243	ppm	-0.0144	0.0006	4.119	-0.014	-0.0148
Se1960	196.090	{4 Y_2243	ppm	-0.0245	0.0018	7.526	-0.0232	-0.0258
Si2516	251.611	{1 Y_3710	ppm	1.898	0.0305	1.608	1.919	1.876
Sn1899	189.989	{4 In2306	ppm	0.0328	0.0001	0.2016	0.0328	0.0329
Sr4215	421.552	{ 8 Y_3710	ppm	0.0764	0.0024	3.106	0.0781	0.0747
Ti3349	334.904	{1 Y_3600	ppm	-0.0052	0.0003	6.583	-0.0049	-0.0054
Tl1908	190.856	{4 In2306	ppm	0.0084	0.0031	36.54	0.0062	0.0106
V_2924	292.402	{1 Y_3600	ppm	0.0024	0.0001	4.645	0.0023	0.0024
Zn2062	206.200	{4 In2306	ppm	0.1615	0.0015	0.928	0.1605	0.1626

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	831.76	20.267	2.4367	817.43	846.09
In2306	230.606	{4 Cts/S	9860.9	138.14	1.4009	9958.5	9763.2
Y_2243	224.306	{4 Cts/S	15560	252.42	1.6223	15738	15381
Y_3600	360.073	{ 9 Cts/S	127400	961.37	0.75462	126720	128080
Y_3710	371.030	{ 9 Cts/S	48205	834.31	1.7307	47615	48795

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60672-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:15:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0014	0.0004	26.94	-0.0011	-0.0017
Al3082	308.215	{1 In2306	ppm	0.6058	0.0359	5.931	0.5804	0.6312
As1890	189.042	{4 Y_2243	ppm	6.026	0.1809	3.001	6.154	5.899
B_2496	249.678	{1 Y_3710	ppm	590.3	26.33	4.461	571.7	608.9
Ba4554	455.403	{ 7 Y_3710	ppm	0.0304	0.0017	5.713	0.0292	0.0316
Be3130	313.042	{1 Y_3710	ppm	0.0001	0.0001	54.43	0.0001	0.0002
Ca3158	315.887	{1 In2306	ppm	165	8.655	5.245	158.9	171.1
Ca3181	318.128	{1 In2306	ppm	144.1	7.859	5.453	138.6	149.7
Cd2288	228.802	{4 Y_2243	ppm	-0.0079	0.0003	4.297	-0.0077	-0.0082
Co2286	228.616	{4 In2306	ppm	0.0006	0.0003	43.89	0.0004	0.0008
Cr2677	267.716	{1 Y_3600	ppm	0.0122	0.0003	2.326	0.012	0.0124
Cu3247	324.754	{1 Y_3600	ppm	0.0401	0.0007	1.719	0.0396	0.0406
Fe2404	240.488	{1 In2306	ppm	1.06	0.0493	4.649	1.025	1.095
K_7664	766.490	{ 4 Y_3710	ppm	1571	67.78	4.314	1523	1619
K_7698	769.896	{ 4 Y_3710	ppm	2071	79.68	3.847	2015	2127
Li6707	670.784	{ 8 Y_3710	ppm	0.4892	0.0242	4.955	0.4721	0.5064
Mg2790	279.079	{1 Y_3710	ppm	11.23	0.6833	6.082	10.75	11.72
Mn2576	257.610	{1 Y_3600	ppm	0.067	0.0012	1.82	0.0662	0.0679
Mn2576-2	257.610	{1 Y_3710	ppm	0.0647	0.0029	4.541	0.0627	0.0668
Mo2020	202.030	{4 Y_2243	ppm	0.0059	0.0001	0.9933	0.006	0.0059
Na5895	589.592	{ 8 Y_3710	ppm	1008	44.94	4.46	975.7	1039
Na8183	818.326	{ 4 Y_3710	ppm	1244	65.79	5.289	1197	1290
Ni2316	231.604	{4 In2306	ppm	0.0051	0.0004	8.281	0.0054	0.0048
P_1782	178.284	{4 In2306	ppm	6.833	0.5201	7.612	7.201	6.465
Pb2203	220.353	{4 In2306	ppm	-0.0058	0.0008	13.61	-0.0052	-0.0063
S_1820	182.034	{4 Y_2243	ppm	-5644	161.1	2.855	-5758	-5530
Sb2068	206.833	{4 Y_2243	ppm	0.0056	0.0012	20.67	0.0064	0.0048
Se1960	196.090	{4 Y_2243	ppm	0.1365	0.0055	4.054	0.1404	0.1326
Si2516	251.611	{1 Y_3710	ppm	0.7744	0.0514	6.639	0.738	0.8107
Sn1899	189.989	{4 In2306	ppm	0.0645	0.0012	1.809	0.0653	0.0636
Sr4215	421.552	{ 8 Y_3710	ppm	0.9557	0.0534	5.586	0.918	0.9935
Ti3349	334.904	{1 Y_3600	ppm	0.0103	0.0001	0.8005	0.0102	0.0103
Tl1908	190.856	{4 In2306	ppm	0.0007	0.002	266.4	-0.0006	0.0021
V_2924	292.402	{1 Y_3600	ppm	0.0153	0.0007	4.333	0.0148	0.0158
Zn2062	206.200	{4 In2306	ppm	0.454	0.0113	2.499	0.462	0.446

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	920.76	39.638	4.3049	948.79	892.73
In2306	230.606	{4 Cts/S	12396	11.44	0.09229	12388	12404
Y_2243	224.306	{4 Cts/S	16263	92.171	0.56676	16198	16328
Y_3600	360.073	{ 9 Cts/S	146820	1915.2	1.3045	148170	145460
Y_3710	371.030	{ 9 Cts/S	53499	2470.3	4.6175	55246	51752

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60673-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:18:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0003	0.0005	148.7	0.0006	0
Al3082	308.215	{1 In2306	ppm	-0.0064	0.0034	53.31	-0.0088	-0.004
As1890	189.042	{4 Y_2243	ppm	0.0058	0.0056	95.13	0.0019	0.0098
B_2496	249.678	{1 Y_3710	ppm	2.45	0.2461	10.04	2.624	2.276
Ba4554	455.403	{ 7 Y_3710	ppm	0.001	0.0001	9.622	0.001	0.0009
Be3130	313.042	{1 Y_3710	ppm	0	0	84.6	0.0001	0
Ca3158	315.887	{1 In2306	ppm	0.513	0.0011	0.2234	0.5138	0.5122
Ca3181	318.128	{1 In2306	ppm	0.4782	0.0023	0.4744	0.4766	0.4798
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	6.026	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0.0001	78.47	0.0002	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0002	0	13.03	0.0002	0.0002
Cu3247	324.754	{1 Y_3600	ppm	0.0055	0.0003	4.829	0.0053	0.0057
Fe2404	240.488	{1 In2306	ppm	0.0163	0.0019	11.35	0.015	0.0176
K_7664	766.490	{ 4 Y_3710	ppm	14.64	0.7231	4.939	15.15	14.13
K_7698	769.896	{ 4 Y_3710	ppm	16.13	0.8598	5.331	16.74	15.52
Li6707	670.784	{ 8 Y_3710	ppm	-0.0003	0	6.624	-0.0003	-0.0002
Mg2790	279.079	{1 Y_3710	ppm	-0.0063	0.0027	42.27	-0.0044	-0.0082
Mn2576	257.610	{1 Y_3600	ppm	0.0008	0.0001	11.3	0.0009	0.0007
Mn2576-2	257.610	{1 Y_3710	ppm	0.0014	0.0004	29.61	0.0017	0.0011
Mo2020	202.030	{4 Y_2243	ppm	0	0.0001	855	-0.0001	0.0001
Na5895	589.592	{ 8 Y_3710	ppm	1.572	0.0991	6.302	1.642	1.502
Na8183	818.326	{ 4 Y_3710	ppm	0.8067	0.1252	15.52	0.8952	0.7181
Ni2316	231.604	{4 In2306	ppm	0.0008	0.0002	27.48	0.0007	0.001
P_1782	178.284	{4 In2306	ppm	0.0391	0.0182	46.42	0.0263	0.0519
Pb2203	220.353	{4 In2306	ppm	0.0007	0.0004	49.67	0.001	0.0005
S_1820	182.034	{4 Y_2243	ppm	-43.38	11.39	26.25	-35.32	-51.43
Sb2068	206.833	{4 Y_2243	ppm	-0.0011	0.0002	19.97	-0.0009	-0.0013
Se1960	196.090	{4 Y_2243	ppm	0.0027	0.0016	58.19	0.0016	0.0038
Si2516	251.611	{1 Y_3710	ppm	0.0018	0.0076	410.8	-0.0035	0.0072
Sn1899	189.989	{4 In2306	ppm	0.0111	0.0001	0.9581	0.0112	0.011
Sr4215	421.552	{ 8 Y_3710	ppm	0.0004	0	6.963	0.0004	0.0004
Ti3349	334.904	{1 Y_3600	ppm	0.0007	0.0001	7.553	0.0007	0.0008
Tl1908	190.856	{4 In2306	ppm	-0.0003	0	3.766	-0.0003	-0.0003
V_2924	292.402	{1 Y_3600	ppm	-0.0002	0.0001	52.66	-0.0003	-0.0001
Zn2062	206.200	{4 In2306	ppm	0.0496	0.0007	1.39	0.0491	0.0501

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1073.5	4.9335	0.45957	1070	1077
In2306	230.606	{4 Cts/S	19700	97.937	0.49715	19769	19630
Y_2243	224.306	{4 Cts/S	22155	69.553	0.31394	22204	22106
Y_3600	360.073	{ 9 Cts/S	207010	460.7	0.22255	207340	206690
Y_3710	371.030	{ 9 Cts/S	60733	271.71	0.44739	60540	60925

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60675-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:20:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0005	0.0001	15.99	0.0004	0.0005
Al3082	308.215	{1 In2306	ppm	0.092	0.0104	11.33	0.0847	0.0994
As1890	189.042	{4 Y_2243	ppm	0.443	0.0056	1.255	0.4469	0.4391
B_2496	249.678	{1 Y_3710	ppm	13.93	0.2044	1.468	14.07	13.78
Ba4554	455.403	{ 7 Y_3710	ppm	0.0196	0.0002	1.15	0.0197	0.0194
Be3130	313.042	{1 Y_3710	ppm	0	0	263.5	0	0
Ca3158	315.887	{1 In2306	ppm	14.77	0.0013	0.0087	14.76	14.77
Ca3181	318.128	{1 In2306	ppm	12.96	0.0457	0.3529	12.92	12.99
Cd2288	228.802	{4 Y_2243	ppm	0	0.0001	478.2	0.0001	0
Co2286	228.616	{4 In2306	ppm	0.0004	0.0001	18.92	0.0003	0.0004
Cr2677	267.716	{1 Y_3600	ppm	0.0065	0.0005	7.077	0.0068	0.0062
Cu3247	324.754	{1 Y_3600	ppm	0.0071	0.0005	7.089	0.0074	0.0067
Fe2404	240.488	{1 In2306	ppm	0.5049	0.0069	1.358	0.5098	0.5001
K_7664	766.490	{ 4 Y_3710	ppm	2021	34.35	1.7	2045	1997
K_7698	769.896	{ 4 Y_3710	ppm	2565	95.33	3.716	2633	2498
Li6707	670.784	{ 8 Y_3710	ppm	0.0285	0.0008	2.973	0.0291	0.0279
Mg2790	279.079	{1 Y_3710	ppm	2.078	0.0143	0.686	2.088	2.068
Mn2576	257.610	{1 Y_3600	ppm	0.015	0.0011	7.162	0.0157	0.0142
Mn2576-2	257.610	{1 Y_3710	ppm	0.014	0.0004	3.171	0.0143	0.0137
Mo2020	202.030	{4 Y_2243	ppm	-0.0004	0.0002	39.55	-0.0006	-0.0003
Na5895	589.592	{ 8 Y_3710	ppm	134.5	2.421	1.8	136.2	132.8
Na8183	818.326	{ 4 Y_3710	ppm	142.3	1.619	1.138	143.5	141.2
Ni2316	231.604	{4 In2306	ppm	0.0041	0.0004	9.658	0.0043	0.0038
P_1782	178.284	{4 In2306	ppm	85.97	1.55	1.803	87.06	84.87
Pb2203	220.353	{4 In2306	ppm	0.0006	0.0006	88.53	0.0011	0.0002
S_1820	182.034	{4 Y_2243	ppm	-5272	83.28	1.58	-5331	-5214
Sb2068	206.833	{4 Y_2243	ppm	0.0134	0.0009	6.416	0.014	0.0128
Se1960	196.090	{4 Y_2243	ppm	0.1316	0.0043	3.237	0.1346	0.1286
Si2516	251.611	{1 Y_3710	ppm	1.109	0.0204	1.843	1.124	1.095
Sn1899	189.989	{4 In2306	ppm	0.0426	0.0008	1.762	0.0432	0.0421
Sr4215	421.552	{ 8 Y_3710	ppm	0.4756	0.0064	1.351	0.4802	0.4711
Ti3349	334.904	{1 Y_3600	ppm	0.004	0.0006	13.99	0.0044	0.0036
Tl1908	190.856	{4 In2306	ppm	-0.005	0.0012	23.83	-0.0042	-0.0059
V_2924	292.402	{1 Y_3600	ppm	0.0028	0.0003	10.38	0.0026	0.003
Zn2062	206.200	{4 In2306	ppm	0.0822	0.0003	0.3393	0.082	0.0824

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	978.86	1.8373	0.1877	980.16	977.56
In2306	230.606	{4 Cts/S	13697	139.36	1.0174	13796	13599
Y_2243	224.306	{4 Cts/S	17655	144.51	0.81854	17757	17552
Y_3600	360.073	{ 9 Cts/S	150630	9466.9	6.285	143930	157320
Y_3710	371.030	{ 9 Cts/S	55847	181.11	0.3243	55719	55975

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60677-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:23:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0009	0.0001	7.6	0.001	0.0009
Al3082	308.215	{1 In2306	ppm	0.0056	0.0045	80.46	0.0024	0.0088
As1890	189.042	{4 Y_2243	ppm	0.0016	0.0011	69.62	0.0008	0.0024
B_2496	249.678	{1 Y_3710	ppm	0.6112	0.0063	1.025	0.6156	0.6067
Ba4554	455.403	{ 7 Y_3710	ppm	0.0014	0.0001	8.475	0.0015	0.0013
Be3130	313.042	{1 Y_3710	ppm	0	0	121.6	0.0001	0
Ca3158	315.887	{1 In2306	ppm	0.401	0.0122	3.054	0.3923	0.4096
Ca3181	318.128	{1 In2306	ppm	0.3388	0.017	5.024	0.3268	0.3508
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	8.477	0.0002	0.0002
Co2286	228.616	{4 In2306	ppm	0	0	48.66	0	0
Cr2677	267.716	{1 Y_3600	ppm	0.0002	0.0003	137.5	0	0.0005
Cu3247	324.754	{1 Y_3600	ppm	0.0057	0.0006	10.62	0.0061	0.0053
Fe2404	240.488	{1 In2306	ppm	0.0136	0.0003	2.168	0.0134	0.0138
K_7664	766.490	{ 4 Y_3710	ppm	7.777	0.3502	4.502	8.025	7.53
K_7698	769.896	{ 4 Y_3710	ppm	8.411	0.428	5.089	8.714	8.108
Li6707	670.784	{ 8 Y_3710	ppm	-0.0002	0.0008	478.5	-0.0007	0.0004
Mg2790	279.079	{1 Y_3710	ppm	0.0176	0.0072	40.83	0.0227	0.0125
Mn2576	257.610	{1 Y_3600	ppm	0.0004	0.0001	20.01	0.0005	0.0004
Mn2576-2	257.610	{1 Y_3710	ppm	0.0008	0.0007	86.74	0.0012	0.0003
Mo2020	202.030	{4 Y_2243	ppm	-0.0002	0.0001	43.2	-0.0002	-0.0003
Na5895	589.592	{ 8 Y_3710	ppm	0.5525	0.0137	2.479	0.5622	0.5429
Na8183	818.326	{ 4 Y_3710	ppm	0.2535	0.128	50.5	0.3441	0.163
Ni2316	231.604	{4 In2306	ppm	0.0005	0.0001	21.38	0.0005	0.0006
P_1782	178.284	{4 In2306	ppm	0.1565	0.1132	72.31	0.0765	0.2366
Pb2203	220.353	{4 In2306	ppm	0.0013	0.0006	42.52	0.0009	0.0017
S_1820	182.034	{4 Y_2243	ppm	-493	1.035	0.2099	-492.2	-493.7
Sb2068	206.833	{4 Y_2243	ppm	-0.0004	0.0005	119.9	-0.0008	-0.0001
Se1960	196.090	{4 Y_2243	ppm	0.0054	0.0003	5.914	0.0056	0.0052
Si2516	251.611	{1 Y_3710	ppm	0.0216	0.0004	2.023	0.0213	0.0219
Sn1899	189.989	{4 In2306	ppm	0.0135	0.0001	0.6489	0.0136	0.0135
Sr4215	421.552	{ 8 Y_3710	ppm	0.0006	0.0001	11.3	0.0006	0.0005
Ti3349	334.904	{1 Y_3600	ppm	0.0021	0.0001	6.985	0.002	0.0022
Tl1908	190.856	{4 In2306	ppm	-0.0005	0.0006	128.1	0	-0.0009
V_2924	292.402	{1 Y_3600	ppm	0.0001	0.0002	209.7	0.0002	0
Zn2062	206.200	{4 In2306	ppm	0.0302	0.0004	1.326	0.0304	0.0299

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1063.9	3.7082	0.34854	1066.5	1061.3
In2306	230.606	{4 Cts/S	19733	251.15	1.2727	19556	19911
Y_2243	224.306	{4 Cts/S	22150	391.67	1.7682	21873	22427
Y_3600	360.073	{ 9 Cts/S	206190	263.82	0.12795	206000	206380
Y_3710	371.030	{ 9 Cts/S	59844	150.54	0.25155	59737	59950

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60789-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:25:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0002	28.72	0.0005	0.0008
Al3082	308.215 {1	In2306	ppm	0.283	0.0112	3.952	0.2751	0.291
As1890	189.042 {4	Y_2243	ppm	0.0156	0.0015	9.603	0.0146	0.0167
B_2496	249.678 {1	Y_3710	ppm	0.8869	0.0101	1.135	0.8798	0.894
Ba4554	455.403 {	Y_3710	ppm	0.1559	0.0007	0.4448	0.1554	0.1564
Be3130	313.042 {1	Y_3710	ppm	0	0	592.9	0	0
Ca3158	315.887 {1	In2306	ppm	83.83	0.3204	0.3822	83.6	84.05
Ca3181	318.128 {1	In2306	ppm	73.28	0.1181	0.1611	73.2	73.36
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	18.19	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0031	0.0001	3.228	0.0032	0.0031
Cr2677	267.716 {1	Y_3600	ppm	0.0031	0	0.4906	0.0031	0.0031
Cu3247	324.754 {1	Y_3600	ppm	0.0072	0.0003	3.479	0.0074	0.0071
Fe2404	240.488 {1	In2306	ppm	0.278	0.0053	1.905	0.2743	0.2817
K_7664	766.490 {	Y_3710	ppm	16.01	0.2896	1.809	15.8	16.21
K_7698	769.896 {	Y_3710	ppm	16.99	0.2022	1.19	16.85	17.14
Li6707	670.784 {	Y_3710	ppm	0.0457	0.0006	1.206	0.0461	0.0453
Mg2790	279.079 {1	Y_3710	ppm	17.74	0.0675	0.3805	17.69	17.79
Mn2576	257.610 {1	Y_3600	ppm	0.049	0.0001	0.107	0.0491	0.049
Mn2576-2	257.610 {1	Y_3710	ppm	0.0492	0.0004	0.7638	0.0489	0.0494
Mo2020	202.030 {4	Y_2243	ppm	0.0986	0.0006	0.6573	0.0991	0.0982
Na5895	589.592 {	Y_3710	ppm	894.1	0.6176	0.0691	894.5	893.6
Na8183	818.326 {	Y_3710	ppm	1013	7.136	0.7042	1008	1018
Ni2316	231.604 {4	In2306	ppm	0.0096	0	0.2845	0.0096	0.0095
P_1782	178.284 {4	In2306	ppm	1.136	0.0008	0.0694	1.136	1.137
Pb2203	220.353 {4	In2306	ppm	-0.0001	0.0003	480.8	-0.0003	0.0002
S_1820	182.034 {4	Y_2243	ppm	-60530	165.7	0.2738	-60650	-60420
Sb2068	206.833 {4	Y_2243	ppm	0.094	0.0011	1.144	0.0948	0.0933
Se1960	196.090 {4	Y_2243	ppm	0.0168	0.0022	13.2	0.0152	0.0184
Si2516	251.611 {1	Y_3710	ppm	11.22	0.0213	0.1902	11.2	11.23
Sn1899	189.989 {4	In2306	ppm	0.0005	0.0001	27.7	0.0004	0.0006
Sr4215	421.552 {	Y_3710	ppm	1.149	0.0079	0.6916	1.143	1.154
Ti3349	334.904 {1	Y_3600	ppm	0.0017	0.0005	31	0.0021	0.0013
Tl1908	190.856 {4	In2306	ppm	-0.0006	0.0017	287.8	0.0006	-0.0018
V_2924	292.402 {1	Y_3600	ppm	0.3971	0.0051	1.291	0.3935	0.4007
Zn2062	206.200 {4	In2306	ppm	0.0858	0.0002	0.1883	0.0859	0.0856

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	983.45	4.8116	0.48926	986.85	980.04
In2306	230.606 {4	Cts/S	14173	21.755	0.1535	14157	14188
Y_2243	224.306 {4	Cts/S	19302	29.166	0.1511	19281	19323
Y_3600	360.073 {	Cts/S	171760	1181	0.68758	172600	170930
Y_3710	371.030 {	Cts/S	57154	197.41	0.3454	57294	57015

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60758-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:28:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0003	0.0003	85.36	0.0005	0.0001
Al3082	308.215	{1 In2306	ppm	0.0181	0.0098	54.12	0.0112	0.025
As1890	189.042	{4 Y_2243	ppm	0.0018	0.0003	17.72	0.0015	0.002
B_2496	249.678	{1 Y_3710	ppm	1.209	0.0455	3.766	1.241	1.176
Ba4554	455.403	{ 7 Y_3710	ppm	0.0898	0.0042	4.702	0.0928	0.0868
Be3130	313.042	{1 Y_3710	ppm	0	0	80.61	0	-0.0001
Ca3158	315.887	{1 In2306	ppm	26.63	1.148	4.311	27.44	25.81
Ca3181	318.128	{1 In2306	ppm	23.47	1.087	4.63	24.24	22.7
Cd2288	228.802	{4 Y_2243	ppm	0.0003	0.0001	17.69	0.0003	0.0003
Co2286	228.616	{4 In2306	ppm	-0.0002	0.0001	53.32	-0.0001	-0.0003
Cr2677	267.716	{1 Y_3600	ppm	0.0009	0.0004	47.72	0.0011	0.0006
Cu3247	324.754	{1 Y_3600	ppm	0.0287	0.0002	0.5465	0.0286	0.0288
Fe2404	240.488	{1 In2306	ppm	0.0218	0.0028	12.85	0.0237	0.0198
K_7664	766.490	{ 4 Y_3710	ppm	17.68	0.7631	4.316	18.22	17.14
K_7698	769.896	{ 4 Y_3710	ppm	18.53	0.8108	4.376	19.1	17.95
Li6707	670.784	{ 8 Y_3710	ppm	0.0442	0.0019	4.259	0.0456	0.0429
Mg2790	279.079	{1 Y_3710	ppm	6.159	0.2952	4.793	6.368	5.95
Mn2576	257.610	{1 Y_3600	ppm	0.0046	0.0001	1.086	0.0047	0.0046
Mn2576-2	257.610	{1 Y_3710	ppm	0.0045	0.0001	1.392	0.0045	0.0044
Mo2020	202.030	{4 Y_2243	ppm	0.0033	0.0006	19.75	0.0028	0.0037
Na5895	589.592	{ 8 Y_3710	ppm	169.6	1.469	0.8664	170.6	168.5
Na8183	818.326	{ 4 Y_3710	ppm	177	7.67	4.334	182.4	171.5
Ni2316	231.604	{4 In2306	ppm	0.0008	0.0001	10.56	0.0008	0.0007
P_1782	178.284	{4 In2306	ppm	4.433	0.0179	0.4046	4.445	4.42
Pb2203	220.353	{4 In2306	ppm	-0.0003	0.0006	216.3	-0.0007	0.0001
S_1820	182.034	{4 Y_2243	ppm	-1289	123.3	9.564	-1202	-1376
Sb2068	206.833	{4 Y_2243	ppm	-0.0004	0.0016	376.7	-0.0015	0.0007
Se1960	196.090	{4 Y_2243	ppm	0.0008	0.0008	101.4	0.0014	0.0002
Si2516	251.611	{1 Y_3710	ppm	7.837	0.3597	4.59	8.091	7.582
Sn1899	189.989	{4 In2306	ppm	0.0001	0.0001	49.69	0.0001	0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0.4936	0.0224	4.533	0.5094	0.4777
Ti3349	334.904	{1 Y_3600	ppm	0.0004	0.0002	46.78	0.0006	0.0003
Tl1908	190.856	{4 In2306	ppm	-0.0013	0.0002	17.7	-0.0014	-0.0011
V_2924	292.402	{1 Y_3600	ppm	0.0001	0	5.124	0.0001	0.0001
Zn2062	206.200	{4 In2306	ppm	0.0608	0.0001	0.1908	0.0607	0.0609

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1061.7	40.428	3.808	1033.1	1090.2
In2306	230.606	{4 Cts/S	16668	19.56	0.11735	16682	16654
Y_2243	224.306	{4 Cts/S	20737	36.373	0.1754	20762	20711
Y_3600	360.073	{ 9 Cts/S	190590	145.24	0.0762	190480	190690
Y_3710	371.030	{ 9 Cts/S	61265	2211.6	3.6098	59702	62829

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:30:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2638	0.0007	0.2695	0.2633	0.2644
Al3082	308.215 {1	In2306	ppm	2.458	0.0068	0.2749	2.463	2.454
As1890	189.042 {4	Y_2243	ppm	0.5263	0.0043	0.815	0.5232	0.5293
B_2496	249.678 {1	Y_3710	ppm	0.9026	0.0045	0.5001	0.8994	0.9057
Ba4554	455.403 {	Y_3710	ppm	0.4908	0.0001	0.0225	0.4907	0.4909
Be3130	313.042 {1	Y_3710	ppm	0.4916	0.0006	0.1202	0.4912	0.492
Ca3158	315.887 {1	In2306	ppm	13.79	0.035	0.2542	13.76	13.81
Ca3181	318.128 {1	In2306	ppm	12.08	0.1212	1.004	12	12.17
Cd2288	228.802 {4	Y_2243	ppm	0.5155	0.0081	1.576	0.5097	0.5212
Co2286	228.616 {4	In2306	ppm	0.4737	0.0047	1	0.4703	0.477
Cr2677	267.716 {1	Y_3600	ppm	0.4898	0.0011	0.2186	0.4905	0.489
Cu3247	324.754 {1	Y_3600	ppm	0.5186	0.0004	0.0699	0.5188	0.5183
Fe2404	240.488 {1	In2306	ppm	2.472	0.0021	0.0859	2.471	2.474
K_7664	766.490 {	Y_3710	ppm	14.73	0.0538	0.365	14.77	14.69
K_7698	769.896 {	Y_3710	ppm	15.34	0.1159	0.7556	15.42	15.25
Li6707	670.784 {	Y_3710	ppm	0.514	0.0007	0.1279	0.5144	0.5135
Mg2790	279.079 {1	Y_3710	ppm	4.768	0.0362	0.7602	4.793	4.742
Mn2576	257.610 {1	Y_3600	ppm	0.5484	0.0029	0.5369	0.5504	0.5463
Mn2576-2	257.610 {1	Y_3710	ppm	0.5614	0.0066	1.178	0.5567	0.5661
Mo2020	202.030 {4	Y_2243	ppm	0.5498	0.0056	1.018	0.5458	0.5537
Na5895	589.592 {	Y_3710	ppm	12.81	0.033	0.2572	12.84	12.79
Na8183	818.326 {	Y_3710	ppm	12.9	0.1878	1.456	13.03	12.76
Ni2316	231.604 {4	In2306	ppm	0.4534	0.0046	1.021	0.4501	0.4566
P_1782	178.284 {4	In2306	ppm	0.4926	0.0112	2.277	0.4847	0.5006
Pb2203	220.353 {4	In2306	ppm	0.4932	0.0042	0.8584	0.4902	0.4962
S_1820	182.034 {4	Y_2243	ppm	-180.6	4.621	2.559	-177.4	-183.9
Sb2068	206.833 {4	Y_2243	ppm	0.517	0.0058	1.129	0.5129	0.5211
Se1960	196.090 {4	Y_2243	ppm	0.54	0.0065	1.21	0.5354	0.5446
Si2516	251.611 {1	Y_3710	ppm	0.8913	0.0026	0.2888	0.8894	0.8931
Sn1899	189.989 {4	In2306	ppm	0.5033	0.0042	0.8336	0.5004	0.5063
Sr4215	421.552 {	Y_3710	ppm	0.2609	0.0002	0.0883	0.261	0.2607
Ti3349	334.904 {1	Y_3600	ppm	0.4768	0.0001	0.0113	0.4767	0.4768
Tl1908	190.856 {4	In2306	ppm	0.1295	0.0074	5.694	0.1347	0.1243
V_2924	292.402 {1	Y_3600	ppm	0.4729	0.0023	0.4906	0.4745	0.4713
Zn2062	206.200 {4	In2306	ppm	0.4588	0.0019	0.4143	0.4574	0.4601

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1055.8	5.3922	0.51073	1059.6	1052
In2306	230.606 {4	Cts/S	18365	230.59	1.2556	18528	18202
Y_2243	224.306 {4	Cts/S	21535	326.43	1.5158	21766	21304
Y_3600	360.073 {	Cts/S	201820	594.56	0.29459	201400	202240
Y_3710	371.030 {	Cts/S	60339	191.21	0.31689	60475	60204

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:33:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0056	0.0002	3.133	0.0058	0.0055
Al3082	308.215 {1	In2306	ppm	0.0885	0.0014	1.586	0.0875	0.0894
As1890	189.042 {4	Y_2243	ppm	0.0109	0.0007	6.823	0.0104	0.0114
B_2496	249.678 {1	Y_3710	ppm	0.3852	0.0005	0.1214	0.3849	0.3855
Ba4554	455.403 {	Y_3710	ppm	0.0102	0.0001	0.8802	0.0101	0.0103
Be3130	313.042 {1	Y_3710	ppm	0.005	0.0001	1.512	0.0051	0.005
Ca3158	315.887 {1	In2306	ppm	0.1189	0.0012	0.9684	0.1181	0.1197
Ca3181	318.128 {1	In2306	ppm	0.1249	0.001	0.8064	0.1242	0.1256
Cd2288	228.802 {4	Y_2243	ppm	0.0061	0.001	16.67	0.0054	0.0068
Co2286	228.616 {4	In2306	ppm	0.0102	0.001	9.455	0.0095	0.0109
Cr2677	267.716 {1	Y_3600	ppm	0.0102	0.0002	1.518	0.0101	0.0103
Cu3247	324.754 {1	Y_3600	ppm	0.0155	0.0001	0.6335	0.0154	0.0155
Fe2404	240.488 {1	In2306	ppm	0.1006	0.0017	1.704	0.0994	0.1018
K_7664	766.490 {	Y_3710	ppm	2.704	0.0122	0.4528	2.713	2.696
K_7698	769.896 {	Y_3710	ppm	2.855	0.0316	1.106	2.878	2.833
Li6707	670.784 {	Y_3710	ppm	0.0101	0	0.1889	0.0101	0.0101
Mg2790	279.079 {1	Y_3710	ppm	0.0916	0.0077	8.383	0.097	0.0861
Mn2576	257.610 {1	Y_3600	ppm	0.0113	0.0001	0.9311	0.0114	0.0112
Mn2576-2	257.610 {1	Y_3710	ppm	0.0119	0.0003	2.173	0.0121	0.0117
Mo2020	202.030 {4	Y_2243	ppm	0.0138	0.0018	13.17	0.0125	0.0151
Na5895	589.592 {	Y_3710	ppm	0.7886	0.0028	0.3605	0.7906	0.7866
Na8183	818.326 {	Y_3710	ppm	0.6466	0.0981	15.17	0.5772	0.7159
Ni2316	231.604 {4	In2306	ppm	0.0101	0.001	9.753	0.0094	0.0108
P_1782	178.284 {4	In2306	ppm	0.01	0.0018	17.79	0.0087	0.0112
Pb2203	220.353 {4	In2306	ppm	0.0116	0.0015	12.61	0.0105	0.0126
S_1820	182.034 {4	Y_2243	ppm	-2.068	0.2981	14.42	-1.857	-2.278
Sb2068	206.833 {4	Y_2243	ppm	0.0127	0.0028	22.27	0.0107	0.0147
Se1960	196.090 {4	Y_2243	ppm	0.0113	0.001	8.894	0.0106	0.012
Si2516	251.611 {1	Y_3710	ppm	0.005	0.0006	13.01	0.0045	0.0054
Sn1899	189.989 {4	In2306	ppm	0.0113	0.0014	12.26	0.0104	0.0123
Sr4215	421.552 {	Y_3710	ppm	0.0053	0.0001	1.102	0.0054	0.0053
Ti3349	334.904 {1	Y_3600	ppm	0.0098	0.0001	0.6771	0.0099	0.0098
Tl1908	190.856 {4	In2306	ppm	0.0689	0.0003	0.3934	0.0687	0.0691
V_2924	292.402 {1	Y_3600	ppm	0.0094	0.0004	4.473	0.0091	0.0097
Zn2062	206.200 {4	In2306	ppm	0.0096	0.001	9.952	0.0089	0.0102

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1072.8	7.3105	0.68142	1078	1067.7
In2306	230.606 {4	Cts/S	19608	15.7	0.08007	19620	19597
Y_2243	224.306 {4	Cts/S	21967	41.552	0.18916	21996	21937
Y_3600	360.073 {	Cts/S	206040	534.73	0.25953	206420	205660
Y_3710	371.030 {	Cts/S	60519	368.74	0.60929	60780	60258

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:35:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0001	0	1.726	0.0001	0.0001
Al3082	308.215 {1	In2306	ppm	-0.0195	0.0003	1.687	-0.0192	-0.0197
As1890	189.042 {4	Y_2243	ppm	-0.0003	0.0006	191.6	-0.0007	0.0001
B_2496	249.678 {1	Y_3710	ppm	0.3378	0.0024	0.6986	0.3395	0.3362
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	38.03	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	26.57	0	0.0001
Ca3158	315.887 {1	In2306	ppm	-0.0013	0.0019	143.5	0	-0.0027
Ca3181	318.128 {1	In2306	ppm	0.0125	0.0197	157.1	0.0265	-0.0014
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	12.95	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0	0	87.12	0	0
Cr2677	267.716 {1	Y_3600	ppm	-0.0003	0	7.151	-0.0003	-0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0048	0.0003	6.118	0.0045	0.005
Fe2404	240.488 {1	In2306	ppm	0.007	0.0004	5.229	0.0072	0.0067
K_7664	766.490 {	Y_3710	ppm	1.767	0.0015	0.0831	1.766	1.768
K_7698	769.896 {	Y_3710	ppm	1.866	0.0438	2.345	1.897	1.835
Li6707	670.784 {	Y_3710	ppm	-0.0001	0	1.772	-0.0001	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	-0.0086	0.0058	67.09	-0.0126	-0.0045
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	137.4	-0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0006	0.0004	62.37	0.0008	0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0001	59.43	0.0002	0.0001
Na5895	589.592 {	Y_3710	ppm	0.1496	0.0065	4.354	0.1542	0.1449
Na8183	818.326 {	Y_3710	ppm	0.176	0.1867	106.1	0.308	0.0439
Ni2316	231.604 {4	In2306	ppm	0.0004	0	0.3671	0.0004	0.0004
P_1782	178.284 {4	In2306	ppm	-0.0003	0.0009	293	0.0003	-0.001
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0004	89.76	0.0007	0.0002
S_1820	182.034 {4	Y_2243	ppm	-1.214	0.201	16.56	-1.356	-1.071
Sb2068	206.833 {4	Y_2243	ppm	-0.001	0.0007	65.05	-0.0015	-0.0006
Se1960	196.090 {4	Y_2243	ppm	0	0.0016	6255	0.0012	-0.0011
Si2516	251.611 {1	Y_3710	ppm	-0.0037	0.0038	103.5	-0.0064	-0.001
Sn1899	189.989 {4	In2306	ppm	0	0.0002	623.7	0.0001	-0.0001
Sr4215	421.552 {	Y_3710	ppm	-0.0001	0	49.3	-0.0001	-0.0001
Ti3349	334.904 {1	Y_3600	ppm	0.0001	0.0003	243	0.0004	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0412	0.0017	4.089	0.04	0.0424
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	37.07	-0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0001	0	0.0917	-0.0001	-0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1074.8	0.5175	0.04815	1075.2	1074.4
In2306	230.606 {4	Cts/S	19332	14.594	0.07549	19322	19343
Y_2243	224.306 {4	Cts/S	21793	44.582	0.20457	21825	21762
Y_3600	360.073 {	Cts/S	207340	550.41	0.26546	207730	206950
Y_3710	371.030 {	Cts/S	60800	266.82	0.43884	60612	60989

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60758-d-2-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:37:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0003	59.15	0.0008	0.0003
Al3082	308.215 {1	In2306	ppm	0.0223	0.0019	8.652	0.0209	0.0236
As1890	189.042 {4	Y_2243	ppm	0.0008	0.0006	72.96	0.0004	0.0012
B_2496	249.678 {1	Y_3710	ppm	0.9818	0.0081	0.8262	0.9875	0.9761
Ba4554	455.403 {	Y_3710	ppm	0.0921	0	0.0086	0.0921	0.0921
Be3130	313.042 {1	Y_3710	ppm	0	0	17.13	0	0
Ca3158	315.887 {1	In2306	ppm	28.33	0.0202	0.0715	28.35	28.32
Ca3181	318.128 {1	In2306	ppm	24.61	0.0154	0.0626	24.62	24.6
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0001	22.2	0.0002	0.0003
Co2286	228.616 {4	In2306	ppm	-0.0001	0.0001	68.4	0	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0009	0.0003	30.32	0.0011	0.0007
Cu3247	324.754 {1	Y_3600	ppm	0.0288	0.0001	0.4398	0.0289	0.0287
Fe2404	240.488 {1	In2306	ppm	0.0233	0.0005	2.079	0.023	0.0237
K_7664	766.490 {	Y_3710	ppm	15.44	0.0057	0.0367	15.44	15.45
K_7698	769.896 {	Y_3710	ppm	16.21	0.011	0.0677	16.2	16.22
Li6707	670.784 {	Y_3710	ppm	0.0453	0.0009	2.05	0.0447	0.046
Mg2790	279.079 {1	Y_3710	ppm	6.428	0.0847	1.317	6.488	6.369
Mn2576	257.610 {1	Y_3600	ppm	0.0058	0	0.7402	0.0058	0.0057
Mn2576-2	257.610 {1	Y_3710	ppm	0.006	0.001	17.12	0.0067	0.0053
Mo2020	202.030 {4	Y_2243	ppm	0.0026	0.0001	3.972	0.0025	0.0026
Na5895	589.592 {	Y_3710	ppm	171.8	2.081	1.211	170.3	173.2
Na8183	818.326 {	Y_3710	ppm	181.4	0.3747	0.2065	181.2	181.7
Ni2316	231.604 {4	In2306	ppm	0.0008	0.0003	39.54	0.0006	0.0011
P_1782	178.284 {4	In2306	ppm	4.432	0.0229	0.5173	4.448	4.415
Pb2203	220.353 {4	In2306	ppm	-0.0008	0.0003	40.87	-0.0006	-0.001
S_1820	182.034 {4	Y_2243	ppm	-1181	8.511	0.7205	-1187	-1175
Sb2068	206.833 {4	Y_2243	ppm	-0.0015	0.0002	16.42	-0.0013	-0.0016
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0008	1488	0.0007	-0.0005
Si2516	251.611 {1	Y_3710	ppm	8.068	0.0642	0.7957	8.113	8.022
Sn1899	189.989 {4	In2306	ppm	0.0005	0.0003	58.94	0.0003	0.0007
Sr4215	421.552 {	Y_3710	ppm	0.5101	0.0016	0.3177	0.509	0.5113
Ti3349	334.904 {1	Y_3600	ppm	0.0008	0.0003	41.92	0.0006	0.001
Tl1908	190.856 {4	In2306	ppm	0.027	0.0007	2.733	0.0264	0.0275
V_2924	292.402 {1	Y_3600	ppm	0.0004	0.0001	33.84	0.0004	0.0003
Zn2062	206.200 {4	In2306	ppm	0.0914	0.0007	0.8115	0.0919	0.0909

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1025.7	0.46115	0.04496	1025.4	1026.1
In2306	230.606 {4	Cts/S	16639	47.624	0.28621	16606	16673
Y_2243	224.306 {4	Cts/S	20801	56.907	0.27358	20760	20841
Y_3600	360.073 {	Cts/S	189620	636.78	0.33581	189170	190070
Y_3710	371.030 {	Cts/S	59045	513.6	0.86985	58681	59408

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60758-d-2-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:40:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5583	0.0004	0.0762	0.558	0.5586
Al3082	308.215 {1	In2306	ppm	11.71	1.287	10.99	12.62	10.8
As1890	189.042 {4	Y_2243	ppm	1.13	0.0096	0.8502	1.137	1.123
B_2496	249.678 {1	Y_3710	ppm	2.13	0.2105	9.884	2.279	1.981
Ba4554	455.403 {	Y_3710	ppm	1.228	0.1356	11.04	1.324	1.132
Be3130	313.042 {1	Y_3710	ppm	0.5739	0.0619	10.79	0.6177	0.5301
Ca3158	315.887 {1	In2306	ppm	44.14	4.762	10.79	47.51	40.77
Ca3181	318.128 {1	In2306	ppm	38.21	4.392	11.49	41.32	35.11
Cd2288	228.802 {4	Y_2243	ppm	0.5376	0.002	0.3648	0.539	0.5362
Co2286	228.616 {4	In2306	ppm	1.04	0.0074	0.7097	1.046	1.035
Cr2677	267.716 {1	Y_3600	ppm	1.033	0.0058	0.564	1.029	1.037
Cu3247	324.754 {1	Y_3600	ppm	1.1	0.0012	0.112	1.101	1.1
Fe2404	240.488 {1	In2306	ppm	11.61	1.339	11.53	12.56	10.66
K_7664	766.490 {	Y_3710	ppm	27.54	2.91	10.57	29.59	25.48
K_7698	769.896 {	Y_3710	ppm	28.68	3.016	10.52	30.81	26.55
Li6707	670.784 {	Y_3710	ppm	0.623	0.0663	10.65	0.6699	0.5761
Mg2790	279.079 {1	Y_3710	ppm	18.1	1.936	10.7	19.47	16.73
Mn2576	257.610 {1	Y_3600	ppm	1.188	0.0031	0.2629	1.185	1.19
Mn2576-2	257.610 {1	Y_3710	ppm	1.302	0.137	10.52	1.399	1.205
Mo2020	202.030 {4	Y_2243	ppm	1.149	0.0082	0.7143	1.155	1.143
Na5895	589.592 {	Y_3710	ppm	189	8.236	4.358	194.8	183.2
Na8183	818.326 {	Y_3710	ppm	208.1	21.47	10.32	223.3	192.9
Ni2316	231.604 {4	In2306	ppm	0.9868	0.0074	0.7528	0.9921	0.9816
P_1782	178.284 {4	In2306	ppm	4.4	0.0096	0.2171	4.406	4.393
Pb2203	220.353 {4	In2306	ppm	1.054	0.0073	0.6944	1.06	1.049
S_1820	182.034 {4	Y_2243	ppm	-1175	3.595	0.3061	-1177	-1172
Sb2068	206.833 {4	Y_2243	ppm	1.058	0.0073	0.6866	1.063	1.053
Se1960	196.090 {4	Y_2243	ppm	1.135	0.0002	0.015	1.135	1.135
Si2516	251.611 {1	Y_3710	ppm	9.792	1.078	11.01	10.55	9.029
Sn1899	189.989 {4	In2306	ppm	1.108	0.0079	0.7104	1.114	1.103
Sr4215	421.552 {	Y_3710	ppm	1.158	0.1251	10.81	1.246	1.069
Ti3349	334.904 {1	Y_3600	ppm	1.008	0.0025	0.249	1.006	1.01
Tl1908	190.856 {4	In2306	ppm	0.3779	0.0364	9.634	0.4037	0.3522
V_2924	292.402 {1	Y_3600	ppm	0.997	0.0021	0.2087	0.9955	0.9985
Zn2062	206.200 {4	In2306	ppm	1.144	0.0083	0.7282	1.15	1.138

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	944.52	84.225	8.9172	884.97	1004.1
In2306	230.606 {4	Cts/S	16293	75.996	0.46644	16239	16347
Y_2243	224.306 {4	Cts/S	20915	76.685	0.36665	20861	20969
Y_3600	360.073 {	Cts/S	189810	421.68	0.22216	190100	189510
Y_3710	371.030 {	Cts/S	55059	4866.8	8.8392	51618	58500

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60758-d-2-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:42:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5704	0.0308	5.392	0.5487	0.5921
Al3082	308.215 {1	In2306	ppm	10.59	0.063	0.5955	10.63	10.54
As1890	189.042 {4	Y_2243	ppm	1.124	0.0047	0.4169	1.121	1.128
B_2496	249.678 {1	Y_3710	ppm	1.936	0.0059	0.3027	1.932	1.94
Ba4554	455.403 {	Y_3710	ppm	1.117	0.0019	0.1692	1.116	1.118
Be3130	313.042 {1	Y_3710	ppm	0.521	0.0004	0.0839	0.5213	0.5207
Ca3158	315.887 {1	In2306	ppm	39.93	0.2181	0.5462	40.09	39.78
Ca3181	318.128 {1	In2306	ppm	34.57	0.2257	0.6529	34.73	34.41
Cd2288	228.802 {4	Y_2243	ppm	0.5335	0.0003	0.0523	0.5333	0.5337
Co2286	228.616 {4	In2306	ppm	1.031	0.0016	0.1574	1.03	1.032
Cr2677	267.716 {1	Y_3600	ppm	1.046	0.0598	5.718	1.004	1.089
Cu3247	324.754 {1	Y_3600	ppm	1.122	0.0531	4.729	1.084	1.159
Fe2404	240.488 {1	In2306	ppm	10.5	0.0414	0.3941	10.53	10.47
K_7664	766.490 {	Y_3710	ppm	25.08	0.0353	0.1409	25.05	25.1
K_7698	769.896 {	Y_3710	ppm	26.1	0.0163	0.0625	26.11	26.09
Li6707	670.784 {	Y_3710	ppm	0.5731	0.0018	0.3059	0.5719	0.5744
Mg2790	279.079 {1	Y_3710	ppm	16.4	0.0504	0.3073	16.37	16.44
Mn2576	257.610 {1	Y_3600	ppm	1.194	0.0666	5.582	1.147	1.241
Mn2576-2	257.610 {1	Y_3710	ppm	1.183	0.0016	0.1321	1.182	1.184
Mo2020	202.030 {4	Y_2243	ppm	1.138	0.0026	0.2264	1.136	1.14
Na5895	589.592 {	Y_3710	ppm	181.4	3.194	1.761	183.6	179.1
Na8183	818.326 {	Y_3710	ppm	190.4	0.517	0.2715	190.1	190.8
Ni2316	231.604 {4	In2306	ppm	0.978	0.0016	0.1638	0.9769	0.9792
P_1782	178.284 {4	In2306	ppm	4.373	0.0011	0.0253	4.374	4.372
Pb2203	220.353 {4	In2306	ppm	1.043	0.0003	0.0283	1.043	1.044
S_1820	182.034 {4	Y_2243	ppm	-1159	0.4786	0.0413	-1159	-1159
Sb2068	206.833 {4	Y_2243	ppm	1.055	0.0077	0.7336	1.049	1.06
Se1960	196.090 {4	Y_2243	ppm	1.134	0.0012	0.1054	1.134	1.133
Si2516	251.611 {1	Y_3710	ppm	8.899	0.0154	0.173	8.888	8.91
Sn1899	189.989 {4	In2306	ppm	1.094	0.0002	0.016	1.094	1.094
Sr4215	421.552 {	Y_3710	ppm	1.057	0.0005	0.0514	1.058	1.057
Ti3349	334.904 {1	Y_3600	ppm	1.021	0.0534	5.231	0.9831	1.059
Tl1908	190.856 {4	In2306	ppm	0.5604	0.0309	5.507	0.5822	0.5386
V_2924	292.402 {1	Y_3600	ppm	1.012	0.0538	5.31	0.9745	1.05
Zn2062	206.200 {4	In2306	ppm	1.121	0.0016	0.1448	1.12	1.122

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1013.7	9.638	0.95076	1006.9	1020.5
In2306	230.606 {4	Cts/S	16352	37.413	0.2288	16378	16326
Y_2243	224.306 {4	Cts/S	20968	42.896	0.20458	20998	20938
Y_3600	360.073 {	Cts/S	187010	7955.4	4.254	192630	181380
Y_3710	371.030 {	Cts/S	59101	176.59	0.2988	58976	59226

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60758-a-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:44:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0001	14.25	0.0003	0.0004
Al3082	308.215 {1	In2306	ppm	0.3225	0.0017	0.5288	0.3237	0.3213
As1890	189.042 {4	Y_2243	ppm	0.0031	0.0017	56.37	0.0019	0.0043
B_2496	249.678 {1	Y_3710	ppm	0.7226	0.0038	0.5274	0.7199	0.7252
Ba4554	455.403 {	Y_3710	ppm	0.2569	0.003	1.156	0.2548	0.259
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	19.59	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	40.55	0.3372	0.8317	40.31	40.79
Ca3181	318.128 {1	In2306	ppm	35.33	0.4073	1.153	35.04	35.61
Cd2288	228.802 {4	Y_2243	ppm	0.001	0.001	98.23	0.0003	0.0017
Co2286	228.616 {4	In2306	ppm	0.0016	0.0023	140.1	0	0.0033
Cr2677	267.716 {1	Y_3600	ppm	0.0009	0	1.742	0.0009	0.0009
Cu3247	324.754 {1	Y_3600	ppm	0.1231	0.0017	1.416	0.1219	0.1243
Fe2404	240.488 {1	In2306	ppm	0.2548	0.0029	1.128	0.2528	0.2569
K_7664	766.490 {	Y_3710	ppm	13.4	0.1532	1.144	13.29	13.51
K_7698	769.896 {	Y_3710	ppm	13.99	0.1471	1.051	13.89	14.1
Li6707	670.784 {	Y_3710	ppm	0.0331	0.0012	3.613	0.0323	0.0339
Mg2790	279.079 {1	Y_3710	ppm	8.61	0.1114	1.294	8.532	8.689
Mn2576	257.610 {1	Y_3600	ppm	0.0298	0.0005	1.569	0.0295	0.0302
Mn2576-2	257.610 {1	Y_3710	ppm	0.0301	0.0003	1.038	0.0299	0.0303
Mo2020	202.030 {4	Y_2243	ppm	0.0084	0.004	47.37	0.0056	0.0112
Na5895	589.592 {	Y_3710	ppm	261.7	3.33	1.272	264.1	259.3
Na8183	818.326 {	Y_3710	ppm	273.2	3.855	1.411	270.5	275.9
Ni2316	231.604 {4	In2306	ppm	0.0024	0.0021	86.63	0.0009	0.0039
P_1782	178.284 {4	In2306	ppm	6.166	0.0809	1.312	6.108	6.223
Pb2203	220.353 {4	In2306	ppm	0.002	0.0004	21.9	0.0017	0.0023
S_1820	182.034 {4	Y_2243	ppm	-955.9	10.61	1.11	-948.4	-963.4
Sb2068	206.833 {4	Y_2243	ppm	0.0051	0.003	58.16	0.003	0.0072
Se1960	196.090 {4	Y_2243	ppm	0.0041	0.0021	50.91	0.0026	0.0056
Si2516	251.611 {1	Y_3710	ppm	8.031	0.1316	1.639	7.938	8.124
Sn1899	189.989 {4	In2306	ppm	0.0053	0.0031	58.78	0.0031	0.0074
Sr4215	421.552 {	Y_3710	ppm	0.853	0.0111	1.304	0.8451	0.8608
Ti3349	334.904 {1	Y_3600	ppm	0.0009	0.0004	48.9	0.0006	0.0012
Tl1908	190.856 {4	In2306	ppm	0.234	0.0093	3.964	0.2275	0.2406
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0001	26.56	0.0002	0.0003
Zn2062	206.200 {4	In2306	ppm	0.1019	0.0032	3.172	0.0996	0.1042

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1021.9	6.2099	0.60768	1026.3	1017.5
In2306	230.606 {4	Cts/S	16256	192.21	1.1824	16392	16120
Y_2243	224.306 {4	Cts/S	20566	239.92	1.1666	20735	20396
Y_3600	360.073 {	Cts/S	185790	2503.2	1.3473	187560	184020
Y_3710	371.030 {	Cts/S	58704	382.49	0.65155	58974	58434

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=PDS 600-60758-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:47:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5353	0.0008	0.153	0.5359	0.5347
Al3082	308.215 {1	In2306	ppm	10.14	0.0723	0.7129	10.09	10.19
As1890	189.042 {4	Y_2243	ppm	1.076	0.0012	0.11	1.075	1.077
B_2496	249.678 {1	Y_3710	ppm	1.931	0.0075	0.3902	1.936	1.926
Ba4554	455.403 {	Y_3710	ppm	1.084	0.0025	0.2348	1.082	1.086
Be3130	313.042 {1	Y_3710	ppm	0.4923	0.0004	0.0808	0.4926	0.492
Ca3158	315.887 {1	In2306	ppm	39.06	0.052	0.1332	39.03	39.1
Ca3181	318.128 {1	In2306	ppm	33.78	0.2058	0.6091	33.64	33.93
Cd2288	228.802 {4	Y_2243	ppm	0.5146	0.0047	0.9058	0.5113	0.5179
Co2286	228.616 {4	In2306	ppm	0.9747	0.0071	0.732	0.9697	0.9798
Cr2677	267.716 {1	Y_3600	ppm	0.9671	0.0039	0.4005	0.9644	0.9699
Cu3247	324.754 {1	Y_3600	ppm	1.053	0.0009	0.0875	1.053	1.054
Fe2404	240.488 {1	In2306	ppm	9.931	0.0524	0.5275	9.894	9.968
K_7664	766.490 {	Y_3710	ppm	25.11	0.0448	0.1784	25.14	25.08
K_7698	769.896 {	Y_3710	ppm	26.1	0.029	0.111	26.12	26.08
Li6707	670.784 {	Y_3710	ppm	1.065	0.0007	0.062	1.064	1.065
Mg2790	279.079 {1	Y_3710	ppm	15.78	0.0831	0.527	15.83	15.72
Mn2576	257.610 {1	Y_3600	ppm	1.109	0.0007	0.0633	1.11	1.109
Mn2576-2	257.610 {1	Y_3710	ppm	1.127	0.0063	0.5609	1.131	1.122
Mo2020	202.030 {4	Y_2243	ppm	1.066	0.0076	0.7119	1.06	1.071
Na5895	589.592 {	Y_3710	ppm	181.7	1.206	0.6636	180.8	182.5
Na8183	818.326 {	Y_3710	ppm	190.8	0.0904	0.0474	190.7	190.8
Ni2316	231.604 {4	In2306	ppm	0.9305	0.0048	0.5134	0.9271	0.9338
P_1782	178.284 {4	In2306	ppm	5.469	0.0618	1.13	5.426	5.513
Pb2203	220.353 {4	In2306	ppm	1.001	0.0134	1.334	0.9914	1.01
S_1820	182.034 {4	Y_2243	ppm	-1171	11.56	0.9879	-1162	-1179
Sb2068	206.833 {4	Y_2243	ppm	1.004	0.0083	0.824	0.9977	1.009
Se1960	196.090 {4	Y_2243	ppm	1.096	0.0135	1.235	1.086	1.105
Si2516	251.611 {1	Y_3710	ppm	8.922	0.0017	0.0189	8.923	8.921
Sn1899	189.989 {4	In2306	ppm	1.035	0.012	1.158	1.027	1.044
Sr4215	421.552 {	Y_3710	ppm	1.035	0.0007	0.0721	1.035	1.036
Ti3349	334.904 {1	Y_3600	ppm	0.9441	0.0022	0.2335	0.9425	0.9456
Tl1908	190.856 {4	In2306	ppm	1.039	0.0174	1.675	1.027	1.052
V_2924	292.402 {1	Y_3600	ppm	0.9252	0.0061	0.6587	0.9295	0.9208
Zn2062	206.200 {4	In2306	ppm	1.07	0.0086	0.8027	1.064	1.076

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1026	2.7908	0.27202	1024	1027.9
In2306	230.606 {4	Cts/S	16293	96.827	0.5943	16361	16224
Y_2243	224.306 {4	Cts/S	20781	126.84	0.61038	20871	20691
Y_3600	360.073 {	Cts/S	191440	200.88	0.10493	191290	191580
Y_3710	371.030 {	Cts/S	59710	470.28	0.78762	59377	60042

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=SD 600-60758-d-2-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:49:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0002	34.55	0.0006	0.0003
Al3082	308.215 {1	In2306	ppm	0.0055	0.0135	244.8	0.015	-0.004
As1890	189.042 {4	Y_2243	ppm	0.0016	0.0021	132.7	0.0001	0.0031
B_2496	249.678 {1	Y_3710	ppm	0.3612	0.0029	0.7975	0.3592	0.3633
Ba4554	455.403 {	Y_3710	ppm	0.0188	0	0.0211	0.0188	0.0188
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	45.23	0.0001	0
Ca3158	315.887 {1	In2306	ppm	5.592	0.0568	1.015	5.552	5.632
Ca3181	318.128 {1	In2306	ppm	4.859	0.0565	1.163	4.819	4.899
Cd2288	228.802 {4	Y_2243	ppm	0.0008	0.0009	113.3	0.0002	0.0015
Co2286	228.616 {4	In2306	ppm	0.0015	0.0021	134.5	0.0001	0.003
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0002	113.2	0	0.0004
Cu3247	324.754 {1	Y_3600	ppm	0.01	0	0.0007	0.01	0.01
Fe2404	240.488 {1	In2306	ppm	0.0096	0.0008	8.367	0.0102	0.0091
K_7664	766.490 {	Y_3710	ppm	3.629	0.0826	2.277	3.57	3.687
K_7698	769.896 {	Y_3710	ppm	3.886	0.0262	0.6734	3.868	3.905
Li6707	670.784 {	Y_3710	ppm	0.0091	0.0005	5.448	0.0094	0.0087
Mg2790	279.079 {1	Y_3710	ppm	1.276	0.0025	0.1929	1.277	1.274
Mn2576	257.610 {1	Y_3600	ppm	0.001	0	3.239	0.001	0.001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0011	0.0001	4.631	0.0012	0.0011
Mo2020	202.030 {4	Y_2243	ppm	0.0063	0.0035	54.45	0.0039	0.0088
Na5895	589.592 {	Y_3710	ppm	35.58	0.118	0.3317	35.49	35.66
Na8183	818.326 {	Y_3710	ppm	36.51	0.0233	0.0638	36.53	36.5
Ni2316	231.604 {4	In2306	ppm	0.0025	0.0018	71.76	0.0012	0.0038
P_1782	178.284 {4	In2306	ppm	0.8356	0.0184	2.199	0.8486	0.8226
Pb2203	220.353 {4	In2306	ppm	0.001	0.0017	162.2	-0.0002	0.0022
S_1820	182.034 {4	Y_2243	ppm	-239.3	5.528	2.311	-243.2	-235.4
Sb2068	206.833 {4	Y_2243	ppm	0.0052	0.0031	59.26	0.003	0.0074
Se1960	196.090 {4	Y_2243	ppm	0.001	0.001	94.48	0.0003	0.0017
Si2516	251.611 {1	Y_3710	ppm	1.599	0.0017	0.1047	1.598	1.601
Sn1899	189.989 {4	In2306	ppm	0.0034	0.0031	89.53	0.0013	0.0056
Sr4215	421.552 {	Y_3710	ppm	0.1033	0.0004	0.3829	0.103	0.1036
Ti3349	334.904 {1	Y_3600	ppm	0.0002	0.0001	24.78	0.0002	0.0003
Tl1908	190.856 {4	In2306	ppm	0.1027	0.0069	6.718	0.0978	0.1076
V_2924	292.402 {1	Y_3600	ppm	0	0	4.228	0	0
Zn2062	206.200 {4	In2306	ppm	0.0204	0.0012	5.82	0.0195	0.0212

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1064.6	10.7	1.0051	1072.2	1057
In2306	230.606 {4	Cts/S	17920	395.8	2.2087	17640	18200
Y_2243	224.306 {4	Cts/S	20949	417.52	1.993	20654	21244
Y_3600	360.073 {	Cts/S	199190	2651.6	1.3312	197310	201060
Y_3710	371.030 {	Cts/S	60910	18.311	0.03006	60923	60897

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=mb 600-87864/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:51:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.001	0.0002	22.71	0.0011	0.0008
Al3082	308.215 {1	In2306	ppm	-0.0157	0.0098	62.23	-0.0088	-0.0226
As1890	189.042 {4	Y_2243	ppm	-0.0014	0	2.798	-0.0014	-0.0013
B_2496	249.678 {1	Y_3710	ppm	0.1827	0.0072	3.916	0.1776	0.1877
Ba4554	455.403 {	Y_3710	ppm	0.0013	0.0002	15.7	0.0012	0.0015
Be3130	313.042 {1	Y_3710	ppm	0	0	34	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0024	0.0045	187.9	0.0008	-0.0056
Ca3181	318.128 {1	In2306	ppm	0.026	0.0046	17.51	0.0228	0.0293
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	0.1463	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0002	0.0001	50.98	0.0001	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0	0.0001	393.4	0.0001	-0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0053	0.0006	10.36	0.0057	0.0049
Fe2404	240.488 {1	In2306	ppm	0.0064	0.0004	6.925	0.0061	0.0067
K_7664	766.490 {	Y_3710	ppm	0.7486	0.0148	1.979	0.7381	0.7591
K_7698	769.896 {	Y_3710	ppm	0.7512	0.0233	3.105	0.7347	0.7677
Li6707	670.784 {	Y_3710	ppm	-0.0007	0.0001	14.84	-0.0006	-0.0007
Mg2790	279.079 {1	Y_3710	ppm	-0.0036	0.0113	313.2	0.0044	-0.0116
Mn2576	257.610 {1	Y_3600	ppm	0.0002	0.0001	39.46	0.0002	0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0006	0.0004	66.43	0.0009	0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0005	0.0002	32.46	0.0004	0.0007
Na5895	589.592 {	Y_3710	ppm	0.0988	0.0029	2.918	0.0967	0.1008
Na8183	818.326 {	Y_3710	ppm	0.1833	0.0189	10.28	0.1966	0.17
Ni2316	231.604 {4	In2306	ppm	0.0004	0	9.517	0.0004	0.0003
P_1782	178.284 {4	In2306	ppm	-0.0021	0.0021	103.9	-0.0036	-0.0005
Pb2203	220.353 {4	In2306	ppm	0.0006	0.0007	116	0.0001	0.0011
S_1820	182.034 {4	Y_2243	ppm	-1.189	0.1526	12.83	-1.081	-1.297
Sb2068	206.833 {4	Y_2243	ppm	0.0013	0.0004	33.01	0.001	0.0017
Se1960	196.090 {4	Y_2243	ppm	-0.0004	0.0005	128.3	-0.0007	0
Si2516	251.611 {1	Y_3710	ppm	0.0024	0.0001	4.116	0.0025	0.0024
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0001	30.69	0.0003	0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0	1261	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0	46.61	-0.0001	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0685	0.0059	8.673	0.0643	0.0727
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	984.1	-0.0001	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0043	0.0002	3.847	0.0042	0.0045

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1115.2	23.885	2.1417	1132.1	1098.4
In2306	230.606 {4	Cts/S	19898	285.82	1.4364	20100	19696
Y_2243	224.306 {4	Cts/S	22255	348.01	1.5637	22501	22009
Y_3600	360.073 {	Cts/S	208020	681.87	0.32779	207540	208500
Y_3710	371.030 {	Cts/S	63289	1847.4	2.9189	64596	61983

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87864/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:54:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	s .6899	0.1017	14.74	s .7619	0.618
Al3082	308.215	{1 In2306	ppm	k 10.48	0.2752	2.625	k 10.68	10.29
As1890	189.042	{4 Y_2243	ppm	k 1.104	0.0057	0.5137	k 1.108	1.1
B_2496	249.678	{1 Y_3710	ppm	1.178	0.0196	1.661	1.192	1.164
Ba4554	455.403	{ 7 Y_3710	ppm	1.042	0.023	2.21	1.058	1.025
Be3130	313.042	{1 Y_3710	ppm	k .5146	0.0115	2.225	k .5227	0.5065
Ca3158	315.887	{1 In2306	ppm	11.76	0.3222	2.739	11.99	11.54
Ca3181	318.128	{1 In2306	ppm	k 10.15	0.2399	2.363	k 10.32	9.983
Cd2288	228.802	{4 Y_2243	ppm	k .5400	0.0053	0.9809	k .5438	0.5363
Co2286	228.616	{4 In2306	ppm	k 1.001	0.0027	0.2737	k 1.002	0.9986
Cr2677	267.716	{1 Y_3600	ppm	s 1.280	0.187	14.61	s 1.412	1.147
Cu3247	324.754	{1 Y_3600	ppm	s 1.358	0.1988	14.64	s 1.499	1.217
Fe2404	240.488	{1 In2306	ppm	10.43	0.2603	2.497	10.61	10.24
K_7664	766.490	{ 4 Y_3710	ppm	10.89	0.2311	2.122	11.05	10.73
K_7698	769.896	{ 4 Y_3710	ppm	11.38	0.2605	2.288	11.57	11.2
Li6707	670.784	{ 8 Y_3710	ppm	0.5446	0.0146	2.686	0.555	0.5343
Mg2790	279.079	{1 Y_3710	ppm	9.911	0.237	2.391	10.08	9.743
Mn2576	257.610	{1 Y_3600	ppm	s 1.474	0.2058	13.97	s 1.619	1.328
Mn2576-2	257.610	{1 Y_3710	ppm	1.175	0.0261	2.223	1.194	1.157
Mo2020	202.030	{4 Y_2243	ppm	1.174	0.0019	0.1601	1.176	1.173
Na5895	589.592	{ 8 Y_3710	ppm	10.67	0.2608	2.445	10.85	10.48
Na8183	818.326	{ 4 Y_3710	ppm	10.68	0.1904	1.782	10.82	10.55
Ni2316	231.604	{4 In2306	ppm	k .9471	0.0005	0.0549	k .9475	0.9467
P_1782	178.284	{4 In2306	ppm	-0.0015	0.0002	13.69	-0.0016	-0.0014
Pb2203	220.353	{4 In2306	ppm	k 1.036	0.0013	0.1299	k 1.035	1.037
S_1820	182.034	{4 Y_2243	ppm	-0.6887	0.0858	12.46	-0.628	-0.7493
Sb2068	206.833	{4 Y_2243	ppm	k 1.086	0.0153	1.408	k 1.097	1.075
Se1960	196.090	{4 Y_2243	ppm	1.137	0.0008	0.0694	1.137	1.136
Si2516	251.611	{1 Y_3710	ppm	0.9177	0.0078	0.8498	0.9232	0.9122
Sn1899	189.989	{4 In2306	ppm	1.062	0.0026	0.2438	1.064	1.06
Sr4215	421.552	{ 8 Y_3710	ppm	0.5524	0.013	2.358	0.5617	0.5432
Ti3349	334.904	{1 Y_3600	ppm	s 1.244	0.177	14.23	s 1.370	1.119
Tl1908	190.856	{4 In2306	ppm	k .4604	0.0433	9.406	k .4911	0.4298
V_2924	292.402	{1 Y_3600	ppm	s 1.226	0.1761	14.36	s 1.351	1.102
Zn2062	206.200	{4 In2306	ppm	k .9689	0.001	0.1036	k .9696	0.9682

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1067	24.014	2.2507	1050	1083.9
In2306	230.606	{4 Cts/S	18245	27.576	0.15114	18264	18225
Y_2243	224.306	{4 Cts/S	21589	44.044	0.20402	21620	21557
Y_3600	360.073	{ 9 Cts/S	^ *****	-----	-----	^-----	184940
Y_3710	371.030	{ 9 Cts/S	62014	1136.5	1.8326	61211	62818

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60738-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:56:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0007	0.0002	34.67	0.0009	0.0005
Al3082	308.215	{1 In2306	ppm	-0.0033	0.019	569	-0.0168	0.0101
As1890	189.042	{4 Y_2243	ppm	0.0007	0.0013	170.8	-0.0002	0.0016
B_2496	249.678	{1 Y_3710	ppm	0.1806	0.0026	1.458	0.1825	0.1788
Ba4554	455.403	{ 7 Y_3710	ppm	0.0011	0	2.879	0.0012	0.0011
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	37.04	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	1.337	0.0199	1.487	1.322	1.351
Ca3181	318.128	{1 In2306	ppm	1.141	0.0084	0.7355	1.147	1.135
Cd2288	228.802	{4 Y_2243	ppm	0.0004	0.0005	121.4	0.0001	0.0008
Co2286	228.616	{4 In2306	ppm	0.0008	0.0011	129.6	0.0001	0.0016
Cr2677	267.716	{1 Y_3600	ppm	0.0001	0.0001	65.85	0.0001	0.0002
Cu3247	324.754	{1 Y_3600	ppm	0.0053	0.0003	5.265	0.0055	0.0051
Fe2404	240.488	{1 In2306	ppm	0.074	0.0019	2.592	0.0754	0.0726
K_7664	766.490	{ 4 Y_3710	ppm	8.676	0.0805	0.9281	8.733	8.619
K_7698	769.896	{ 4 Y_3710	ppm	9.054	0.0666	0.7361	9.101	9.007
Li6707	670.784	{ 8 Y_3710	ppm	-0.0003	0.0004	149	0	-0.0005
Mg2790	279.079	{1 Y_3710	ppm	0.1003	0.015	14.99	0.0897	0.1109
Mn2576	257.610	{1 Y_3600	ppm	0.0023	0	1.884	0.0023	0.0023
Mn2576-2	257.610	{1 Y_3710	ppm	0.0034	0.0004	10.42	0.0032	0.0037
Mo2020	202.030	{4 Y_2243	ppm	0.0048	0.0024	51.09	0.003	0.0065
Na5895	589.592	{ 8 Y_3710	ppm	36.91	0.3407	0.923	37.15	36.67
Na8183	818.326	{ 4 Y_3710	ppm	38.04	0.2769	0.7279	38.23	37.84
Ni2316	231.604	{4 In2306	ppm	0.0012	0.0011	91.16	0.0004	0.0019
P_1782	178.284	{4 In2306	ppm	0.146	0.0009	0.6048	0.1466	0.1453
Pb2203	220.353	{4 In2306	ppm	0.001	0.0005	45.71	0.0007	0.0013
S_1820	182.034	{4 Y_2243	ppm	-688.4	1.295	0.1881	-689.3	-687.5
Sb2068	206.833	{4 Y_2243	ppm	0.0043	0	0.8495	0.0043	0.0044
Se1960	196.090	{4 Y_2243	ppm	0.0005	0.0015	299.2	-0.0005	0.0015
Si2516	251.611	{1 Y_3710	ppm	0.025	0.002	8.019	0.0264	0.0236
Sn1899	189.989	{4 In2306	ppm	0.0021	0.0018	87.63	0.0008	0.0034
Sr4215	421.552	{ 8 Y_3710	ppm	0.0068	0	0.6722	0.0068	0.0068
Ti3349	334.904	{1 Y_3600	ppm	0.0002	0.0002	99.06	0.0001	0.0004
Tl1908	190.856	{4 In2306	ppm	0.1918	0.0029	1.522	0.1897	0.1939
V_2924	292.402	{1 Y_3600	ppm	0.0003	0.0002	57.53	0.0004	0.0002
Zn2062	206.200	{4 In2306	ppm	0.0053	0.0009	17.38	0.0047	0.006

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1079.5	1.6511	0.15295	1080.7	1078.3
In2306	230.606	{4 Cts/S	18402	35.001	0.19021	18377	18426
Y_2243	224.306	{4 Cts/S	21439	66.969	0.31237	21392	21487
Y_3600	360.073	{ 9 Cts/S	199660	485.64	0.24323	199320	200010
Y_3710	371.030	{ 9 Cts/S	61295	392.46	0.64029	61018	61573

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60739-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 9:58:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0002	0.0003	169.8	0.0004	0
Al3082	308.215	{1 In2306	ppm	-0.011	0.0054	48.82	-0.0148	-0.0072
As1890	189.042	{4 Y_2243	ppm	-0.0018	0.0004	23.65	-0.0015	-0.0021
B_2496	249.678	{1 Y_3710	ppm	0.1617	0.003	1.87	0.1639	0.1596
Ba4554	455.403	{ 7 Y_3710	ppm	0.001	0	0.9409	0.001	0.001
Be3130	313.042	{1 Y_3710	ppm	0	0	31.31	0	0
Ca3158	315.887	{1 In2306	ppm	1.346	0.0045	0.3361	1.343	1.349
Ca3181	318.128	{1 In2306	ppm	1.169	0.0092	0.789	1.176	1.163
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	48.02	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0	28.78	0.0001	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0003	0.0001	34.68	0.0003	0.0002
Cu3247	324.754	{1 Y_3600	ppm	0.0051	0.0003	5.197	0.0053	0.0049
Fe2404	240.488	{1 In2306	ppm	0.0726	0.0051	6.98	0.0762	0.0691
K_7664	766.490	{ 4 Y_3710	ppm	8.393	0.0736	0.8765	8.445	8.341
K_7698	769.896	{ 4 Y_3710	ppm	8.72	0.0437	0.5013	8.751	8.689
Li6707	670.784	{ 8 Y_3710	ppm	-0.0006	0.001	173	-0.0013	0.0001
Mg2790	279.079	{1 Y_3710	ppm	0.0971	0.0057	5.913	0.1012	0.093
Mn2576	257.610	{1 Y_3600	ppm	0.0024	0.0001	2.37	0.0025	0.0024
Mn2576-2	257.610	{1 Y_3710	ppm	0.0029	0.0004	14.53	0.0032	0.0026
Mo2020	202.030	{4 Y_2243	ppm	0.0004	0.0002	65.19	0.0002	0.0005
Na5895	589.592	{ 8 Y_3710	ppm	37.5	0.2306	0.6149	37.66	37.33
Na8183	818.326	{ 4 Y_3710	ppm	38.56	0.1595	0.4136	38.67	38.45
Ni2316	231.604	{4 In2306	ppm	0.0003	0.0003	110.5	0.0005	0.0001
P_1782	178.284	{4 In2306	ppm	0.1419	0.0017	1.167	0.1407	0.143
Pb2203	220.353	{4 In2306	ppm	0	0.0006	7387	0.0004	-0.0004
S_1820	182.034	{4 Y_2243	ppm	-686.7	3.118	0.4541	-684.5	-688.9
Sb2068	206.833	{4 Y_2243	ppm	-0.0003	0.0002	70.65	-0.0001	-0.0004
Se1960	196.090	{4 Y_2243	ppm	0.0006	0.0001	22.38	0.0007	0.0005
Si2516	251.611	{1 Y_3710	ppm	0.0446	0.0008	1.761	0.0452	0.0441
Sn1899	189.989	{4 In2306	ppm	-0.0001	0.0002	155.1	-0.0002	0
Sr4215	421.552	{ 8 Y_3710	ppm	0.0068	0.0001	1.45	0.0069	0.0068
Ti3349	334.904	{1 Y_3600	ppm	0	0.0002	656.5	-0.0002	0.0001
Tl1908	190.856	{4 In2306	ppm	0.1192	0.0099	8.269	0.1122	0.1262
V_2924	292.402	{1 Y_3600	ppm	-0.0001	0.0003	180.6	-0.0003	0
Zn2062	206.200	{4 In2306	ppm	0.0041	0.0001	2.004	0.0041	0.004

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1073.9	4.2479	0.39554	1070.9	1076.9
In2306	230.606	{4 Cts/S	18339	167.16	0.91148	18458	18221
Y_2243	224.306	{4 Cts/S	21334	174.99	0.82024	21458	21210
Y_3600	360.073	{ 9 Cts/S	200800	91.96	0.0458	200740	200870
Y_3710	371.030	{ 9 Cts/S	60984	445.92	0.7312	60669	61300

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:01:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2686	0.0037	1.387	0.266	0.2713
Al3082	308.215 {1	In2306	ppm	2.29	0.073	3.188	2.238	2.341
As1890	189.042 {4	Y_2243	ppm	0.54	0.0029	0.5377	0.5421	0.538
B_2496	249.678 {1	Y_3710	ppm	0.5965	0.0155	2.607	0.5855	0.6074
Ba4554	455.403 {	Y_3710	ppm	0.4606	0.0142	3.093	0.4505	0.4707
Be3130	313.042 {1	Y_3710	ppm	0.4583	0.0131	2.849	0.449	0.4675
Ca3158	315.887 {1	In2306	ppm	13.17	0.4756	3.611	12.83	13.51
Ca3181	318.128 {1	In2306	ppm	11.21	0.391	3.487	10.94	11.49
Cd2288	228.802 {4	Y_2243	ppm	0.5195	0.0029	0.5665	0.5216	0.5175
Co2286	228.616 {4	In2306	ppm	0.4801	0.0039	0.8072	0.4828	0.4774
Cr2677	267.716 {1	Y_3600	ppm	0.5022	0.0037	0.736	0.4996	0.5048
Cu3247	324.754 {1	Y_3600	ppm	0.5264	0.0047	0.9017	0.5231	0.5298
Fe2404	240.488 {1	In2306	ppm	2.305	0.098	4.25	2.236	2.375
K_7664	766.490 {	Y_3710	ppm	11.83	0.3209	2.711	11.61	12.06
K_7698	769.896 {	Y_3710	ppm	12.31	0.3002	2.438	12.1	12.52
Li6707	670.784 {	Y_3710	ppm	0.4766	0.0112	2.351	0.4687	0.4846
Mg2790	279.079 {1	Y_3710	ppm	4.432	0.1454	3.28	4.329	4.534
Mn2576	257.610 {1	Y_3600	ppm	0.5786	0.0045	0.7839	0.5754	0.5818
Mn2576-2	257.610 {1	Y_3710	ppm	0.5322	0.0164	3.09	0.5205	0.5438
Mo2020	202.030 {4	Y_2243	ppm	0.5673	0.0084	1.486	0.5733	0.5613
Na5895	589.592 {	Y_3710	ppm	11.71	0.3218	2.748	11.48	11.94
Na8183	818.326 {	Y_3710	ppm	11.8	0.2192	1.857	11.65	11.96
Ni2316	231.604 {4	In2306	ppm	0.4553	0.0042	0.9314	0.4583	0.4523
P_1782	178.284 {4	In2306	ppm	0.4983	0.0021	0.4246	0.4998	0.4968
Pb2203	220.353 {4	In2306	ppm	0.5017	0.0046	0.9073	0.5049	0.4985
S_1820	182.034 {4	Y_2243	ppm	-180.1	0.5754	0.3195	-180.5	-179.7
Sb2068	206.833 {4	Y_2243	ppm	0.5173	0.0025	0.4874	0.5191	0.5155
Se1960	196.090 {4	Y_2243	ppm	0.5499	0.0036	0.6606	0.5525	0.5473
Si2516	251.611 {1	Y_3710	ppm	0.805	0.0264	3.276	0.7863	0.8236
Sn1899	189.989 {4	In2306	ppm	0.5165	0.0052	0.9977	0.5201	0.5128
Sr4215	421.552 {	Y_3710	ppm	0.2446	0.0069	2.807	0.2398	0.2495
Ti3349	334.904 {1	Y_3600	ppm	0.481	0.0035	0.7201	0.4785	0.4834
Tl1908	190.856 {4	In2306	ppm	0.2695	0.011	4.074	0.2773	0.2618
V_2924	292.402 {1	Y_3600	ppm	0.4794	0.0034	0.7067	0.477	0.4818
Zn2062	206.200 {4	In2306	ppm	0.469	0.0051	1.094	0.4726	0.4653

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1127.4	30.094	2.6693	1148.7	1106.1
In2306	230.606 {4	Cts/S	18146	49.087	0.27051	18111	18180
Y_2243	224.306 {4	Cts/S	21209	47.093	0.22204	21176	21242
Y_3600	360.073 {	Cts/S	198910	1167.6	0.58702	199740	198090
Y_3710	371.030 {	Cts/S	64045	1444.7	2.2558	65067	63024

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:03:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0057	0.0003	5.492	0.0054	0.0059
Al3082	308.215 {1	In2306	ppm	0.0878	0.0091	10.39	0.0942	0.0813
As1890	189.042 {4	Y_2243	ppm	0.0098	0.0005	4.581	0.0095	0.0101
B_2496	249.678 {1	Y_3710	ppm	0.1528	0.0019	1.219	0.1541	0.1515
Ba4554	455.403 {	Y_3710	ppm	0.01	0	0.3114	0.0101	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0049	0.0001	1.686	0.005	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1175	0.0076	6.465	0.1121	0.1229
Ca3181	318.128 {1	In2306	ppm	0.1216	0.014	11.48	0.1315	0.1117
Cd2288	228.802 {4	Y_2243	ppm	0.0057	0.0005	8.74	0.0054	0.0061
Co2286	228.616 {4	In2306	ppm	0.0098	0.0007	6.763	0.0093	0.0103
Cr2677	267.716 {1	Y_3600	ppm	0.0101	0.0002	1.669	0.0103	0.01
Cu3247	324.754 {1	Y_3600	ppm	0.0159	0.0003	1.83	0.0161	0.0157
Fe2404	240.488 {1	In2306	ppm	0.1037	0.0001	0.138	0.1038	0.1036
K_7664	766.490 {	Y_3710	ppm	1.089	0.0277	2.548	1.108	1.069
K_7698	769.896 {	Y_3710	ppm	1.124	0.0005	0.0486	1.124	1.125
Li6707	670.784 {	Y_3710	ppm	0.0098	0.0006	6.534	0.0102	0.0093
Mg2790	279.079 {1	Y_3710	ppm	0.0811	0.0054	6.719	0.085	0.0772
Mn2576	257.610 {1	Y_3600	ppm	0.0118	0.0001	0.8319	0.0118	0.0117
Mn2576-2	257.610 {1	Y_3710	ppm	0.0119	0	0.38	0.0119	0.0119
Mo2020	202.030 {4	Y_2243	ppm	0.0138	0.0015	11.16	0.0127	0.0149
Na5895	589.592 {	Y_3710	ppm	0.6579	0.0031	0.4697	0.6601	0.6557
Na8183	818.326 {	Y_3710	ppm	0.4607	0.1812	39.34	0.3326	0.5889
Ni2316	231.604 {4	In2306	ppm	0.0099	0.0008	7.986	0.0093	0.0104
P_1782	178.284 {4	In2306	ppm	0.0064	0.0001	2.295	0.0065	0.0063
Pb2203	220.353 {4	In2306	ppm	0.0102	0.0004	4.106	0.0099	0.0105
S_1820	182.034 {4	Y_2243	ppm	0.0448	0.1249	278.8	-0.0435	0.1331
Sb2068	206.833 {4	Y_2243	ppm	0.0125	0.0016	13.04	0.0114	0.0137
Se1960	196.090 {4	Y_2243	ppm	0.0112	0.0008	7.213	0.0106	0.0117
Si2516	251.611 {1	Y_3710	ppm	0.0059	0.0013	22.59	0.005	0.0069
Sn1899	189.989 {4	In2306	ppm	0.0111	0.0008	7.576	0.0105	0.0117
Sr4215	421.552 {	Y_3710	ppm	0.0053	0	0.3957	0.0054	0.0053
Ti3349	334.904 {1	Y_3600	ppm	0.0094	0.0002	2.525	0.0092	0.0095
Tl1908	190.856 {4	In2306	ppm	0.1354	0.006	4.402	0.1311	0.1396
V_2924	292.402 {1	Y_3600	ppm	0.0096	0	0.0824	0.0096	0.0096
Zn2062	206.200 {4	In2306	ppm	0.0094	0.0006	6.341	0.009	0.0098

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1079.5	1.6366	0.15161	1078.3	1080.6
In2306	230.606 {4	Cts/S	19583	38.193	0.19503	19610	19556
Y_2243	224.306 {4	Cts/S	21941	83.312	0.37971	22000	21882
Y_3600	360.073 {	Cts/S	206030	476.85	0.23144	206370	205700
Y_3710	371.030 {	Cts/S	61756	490.94	0.79498	61409	62103

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:05:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0005	0.0001	23.77	0.0004	0.0006
Al3082	308.215	{1 In2306	ppm	-0.0061	0.0111	180.9	-0.0139	0.0017
As1890	189.042	{4 Y_2243	ppm	-0.0002	0.0003	171	0	-0.0004
B_2496	249.678	{1 Y_3710	ppm	0.1432	0.0115	8.033	0.135	0.1513
Ba4554	455.403	{ 7 Y_3710	ppm	-0.0002	0.0001	55.81	-0.0001	-0.0003
Be3130	313.042	{1 Y_3710	ppm	0	0	118	0	0
Ca3158	315.887	{1 In2306	ppm	-0.0052	0.0027	52.31	-0.0032	-0.0071
Ca3181	318.128	{1 In2306	ppm	0.0219	0.003	13.67	0.0241	0.0198
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	51.35	0.0001	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0.0001	84.13	0	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0003	0.0001	37.13	0.0004	0.0002
Cu3247	324.754	{1 Y_3600	ppm	0.0058	0.0002	4.191	0.0057	0.006
Fe2404	240.488	{1 In2306	ppm	0.0064	0.0005	8.415	0.0068	0.006
K_7664	766.490	{ 4 Y_3710	ppm	0.5303	0.0506	9.544	0.4945	0.5661
K_7698	769.896	{ 4 Y_3710	ppm	0.569	0.0589	10.35	0.5274	0.6106
Li6707	670.784	{ 8 Y_3710	ppm	-0.0008	0.0007	87.36	-0.0003	-0.0014
Mg2790	279.079	{1 Y_3710	ppm	-0.0126	0.0075	59.27	-0.0073	-0.0179
Mn2576	257.610	{1 Y_3600	ppm	-0.0001	0	67.32	0	-0.0001
Mn2576-2	257.610	{1 Y_3710	ppm	0.0003	0.0009	275.6	0.001	-0.0003
Mo2020	202.030	{4 Y_2243	ppm	0.0003	0	14.86	0.0003	0.0003
Na5895	589.592	{ 8 Y_3710	ppm	0.0489	0.0106	21.71	0.0414	0.0565
Na8183	818.326	{ 4 Y_3710	ppm	-0.1153	0.0673	58.4	-0.0677	-0.1629
Ni2316	231.604	{4 In2306	ppm	0.0004	0.0001	14.35	0.0005	0.0004
P_1782	178.284	{4 In2306	ppm	-0.0017	0.0005	31.85	-0.0021	-0.0013
Pb2203	220.353	{4 In2306	ppm	0.0008	0.0003	40.11	0.001	0.0005
S_1820	182.034	{4 Y_2243	ppm	0.2473	0.0765	30.94	0.1932	0.3014
Sb2068	206.833	{4 Y_2243	ppm	-0.0003	0.0006	203.5	0.0001	-0.0008
Se1960	196.090	{4 Y_2243	ppm	-0.0001	0.0014	2325	-0.001	0.0009
Si2516	251.611	{1 Y_3710	ppm	-0.004	0.002	48.56	-0.0054	-0.0026
Sn1899	189.989	{4 In2306	ppm	-0.0001	0	24.53	-0.0001	-0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0	0	76.89	0	0
Ti3349	334.904	{1 Y_3600	ppm	0	0.0001	551.3	0.0001	-0.0001
Tl1908	190.856	{4 In2306	ppm	0.0889	0.005	5.676	0.0853	0.0925
V_2924	292.402	{1 Y_3600	ppm	0	0.0001	1016	-0.0001	0.0001
Zn2062	206.200	{4 In2306	ppm	-0.0003	0.0001	35.63	-0.0002	-0.0004

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1033.4	62.522	6.0501	1077.6	989.18
In2306	230.606	{4 Cts/S	19639	9.8797	0.05031	19646	19632
Y_2243	224.306	{4 Cts/S	21956	28.207	0.12847	21976	21936
Y_3600	360.073	{ 9 Cts/S	205090	628.66	0.30653	205540	204650
Y_3710	371.030	{ 9 Cts/S	58503	3521.5	6.0193	60993	56013

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60740-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:08:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0002	119.9	0.0003	0
Al3082	308.215 {1	In2306	ppm	-0.0097	0.003	31.05	-0.0076	-0.0119
As1890	189.042 {4	Y_2243	ppm	-0.0007	0.0005	70.77	-0.0004	-0.0011
B_2496	249.678 {1	Y_3710	ppm	0.1301	0.0008	0.586	0.1306	0.1295
Ba4554	455.403 {	Y_3710	ppm	0.0012	0	0.3511	0.0012	0.0012
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	2.65	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	1.38	0.0196	1.422	1.366	1.394
Ca3181	318.128 {1	In2306	ppm	1.188	0.0054	0.4562	1.192	1.184
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0.0001	47.81	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	642.2	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	14.8	0.0002	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0059	0.0001	1.471	0.0059	0.0058
Fe2404	240.488 {1	In2306	ppm	0.076	0.0019	2.453	0.0746	0.0773
K_7664	766.490 {	Y_3710	ppm	8.419	0.0235	0.2794	8.403	8.436
K_7698	769.896 {	Y_3710	ppm	8.851	0.0104	0.1177	8.859	8.844
Li6707	670.784 {	Y_3710	ppm	0.0002	0.0004	232.6	0.0005	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	0.0957	0.0033	3.396	0.0934	0.098
Mn2576	257.610 {1	Y_3600	ppm	0.0025	0.0001	2.109	0.0024	0.0025
Mn2576-2	257.610 {1	Y_3710	ppm	0.002	0.0006	31.08	0.0025	0.0016
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0	10.45	0.0001	0.0001
Na5895	589.592 {	Y_3710	ppm	39.27	0.1857	0.473	39.13	39.4
Na8183	818.326 {	Y_3710	ppm	40.59	0.425	1.047	40.29	40.89
Ni2316	231.604 {4	In2306	ppm	0.0004	0	5.892	0.0005	0.0004
P_1782	178.284 {4	In2306	ppm	0.1422	0.0013	0.9253	0.1431	0.1413
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0005	95.51	0.0009	0.0002
S_1820	182.034 {4	Y_2243	ppm	-707.7	6.879	0.972	-712.6	-702.9
Sb2068	206.833 {4	Y_2243	ppm	-0.0012	0.0008	67.59	-0.0006	-0.0018
Se1960	196.090 {4	Y_2243	ppm	-0.0009	0.0004	45.54	-0.0012	-0.0006
Si2516	251.611 {1	Y_3710	ppm	0.0537	0.0031	5.863	0.0559	0.0514
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0001	65.46	-0.0001	-0.0002
Sr4215	421.552 {	Y_3710	ppm	0.0071	0	0.3243	0.0071	0.0071
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0	26.91	-0.0002	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0603	0.0041	6.791	0.0574	0.0632
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0001	47.46	-0.0003	-0.0002
Zn2062	206.200 {4	In2306	ppm	0.0048	0	0.5579	0.0048	0.0048

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1059	9.8955	0.93446	1066	1052
In2306	230.606 {4	Cts/S	18350	162.16	0.88372	18235	18465
Y_2243	224.306 {4	Cts/S	21355	182.85	0.85625	21226	21484
Y_3600	360.073 {	Cts/S	198920	641.06	0.32227	198470	199380
Y_3710	371.030 {	Cts/S	60676	415.32	0.68449	60969	60382

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60742-d-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:10:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0004	67.88	0.0008	0.0003
Al3082	308.215 {1	In2306	ppm	-0.0105	0.0019	18.37	-0.0091	-0.0119
As1890	189.042 {4	Y_2243	ppm	0.0003	0.0007	251.1	-0.0002	0.0008
B_2496	249.678 {1	Y_3710	ppm	0.1233	0.0006	0.5024	0.1228	0.1237
Ba4554	455.403 {	Y_3710	ppm	0.0011	0	4.397	0.0012	0.0011
Be3130	313.042 {1	Y_3710	ppm	0	0	10.09	0	0
Ca3158	315.887 {1	In2306	ppm	1.399	0.024	1.719	1.382	1.416
Ca3181	318.128 {1	In2306	ppm	1.202	0.0406	3.375	1.173	1.231
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	1.841	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	192.6	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	17.23	0.0002	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0051	0.0004	8.231	0.0048	0.0054
Fe2404	240.488 {1	In2306	ppm	0.079	0.0008	0.98	0.0784	0.0795
K_7664	766.490 {	Y_3710	ppm	8.844	0.0748	0.8455	8.791	8.897
K_7698	769.896 {	Y_3710	ppm	9.21	0.0815	0.8852	9.152	9.267
Li6707	670.784 {	Y_3710	ppm	-0.0009	0.0007	78	-0.0004	-0.0014
Mg2790	279.079 {1	Y_3710	ppm	0.0934	0.004	4.28	0.0906	0.0963
Mn2576	257.610 {1	Y_3600	ppm	0.0026	0	1.229	0.0025	0.0026
Mn2576-2	257.610 {1	Y_3710	ppm	0.0019	0.0004	18.75	0.0022	0.0017
Mo2020	202.030 {4	Y_2243	ppm	0	0	272.6	0	0
Na5895	589.592 {	Y_3710	ppm	41.59	0.4833	1.162	41.25	41.93
Na8183	818.326 {	Y_3710	ppm	42.95	0.144	0.3352	42.85	43.05
Ni2316	231.604 {4	In2306	ppm	0.0005	0.0003	55.84	0.0008	0.0003
P_1782	178.284 {4	In2306	ppm	0.1464	0.0005	0.3379	0.1467	0.146
Pb2203	220.353 {4	In2306	ppm	0	0.0006	3222	0.0004	-0.0005
S_1820	182.034 {4	Y_2243	ppm	-740	7.785	1.052	-734.5	-745.6
Sb2068	206.833 {4	Y_2243	ppm	-0.0008	0.001	123.1	-0.0001	-0.0016
Se1960	196.090 {4	Y_2243	ppm	0	0	60.34	0	0
Si2516	251.611 {1	Y_3710	ppm	0.0476	0.005	10.59	0.044	0.0512
Sn1899	189.989 {4	In2306	ppm	0	0.0001	708.9	0	0
Sr4215	421.552 {	Y_3710	ppm	0.0073	0.0001	1.325	0.0072	0.0074
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0002	164.7	0	-0.0003
Tl1908	190.856 {4	In2306	ppm	0.0422	0.0034	7.959	0.0398	0.0445
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0004	511.7	0.0002	-0.0003
Zn2062	206.200 {4	In2306	ppm	0.0046	0	1.038	0.0047	0.0046

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1063.7	8.7576	0.8233	1069.9	1057.5
In2306	230.606 {4	Cts/S	18398	158.2	0.85991	18509	18286
Y_2243	224.306 {4	Cts/S	21456	196.71	0.91683	21595	21316
Y_3600	360.073 {	Cts/S	197480	1011.4	0.51216	198190	196760
Y_3710	371.030 {	Cts/S	60723	578.56	0.95278	61132	60314

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60768-a-5-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:13:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0001	0.0003	203.3	-0.0001	0.0003
Al3082	308.215 {1	In2306	ppm	0.0931	0.005	5.373	0.0896	0.0967
As1890	189.042 {4	Y_2243	ppm	0.0002	0	13.26	0.0002	0.0003
B_2496	249.678 {1	Y_3710	ppm	0.1347	0.0024	1.803	0.133	0.1364
Ba4554	455.403 {	Y_3710	ppm	0.0473	0.001	2.15	0.0466	0.048
Be3130	313.042 {1	Y_3710	ppm	0	0	2.118	0	0
Ca3158	315.887 {1	In2306	ppm	12.65	0.2843	2.247	12.45	12.85
Ca3181	318.128 {1	In2306	ppm	10.69	0.2498	2.337	10.51	10.87
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	15.93	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0.0005	0	2.445	0.0005	0.0005
Cr2677	267.716 {1	Y_3600	ppm	0.0014	0.0002	14.57	0.0013	0.0016
Cu3247	324.754 {1	Y_3600	ppm	0.0811	0.003	3.661	0.0832	0.079
Fe2404	240.488 {1	In2306	ppm	0.8447	0.0269	3.187	0.8256	0.8637
K_7664	766.490 {	Y_3710	ppm	2.504	0.0586	2.338	2.463	2.546
K_7698	769.896 {	Y_3710	ppm	2.645	0.0211	0.7996	2.63	2.659
Li6707	670.784 {	Y_3710	ppm	0.005	0.0003	5.468	0.0052	0.0048
Mg2790	279.079 {1	Y_3710	ppm	1.496	0.0317	2.119	1.474	1.519
Mn2576	257.610 {1	Y_3600	ppm	0.0636	0.0029	4.594	0.0657	0.0616
Mn2576-2	257.610 {1	Y_3710	ppm	0.0653	0.002	3.095	0.0638	0.0667
Mo2020	202.030 {4	Y_2243	ppm	0.0057	0.0001	2.433	0.0058	0.0056
Na5895	589.592 {	Y_3710	ppm	34.59	0.6975	2.016	34.1	35.08
Na8183	818.326 {	Y_3710	ppm	35.68	0.8129	2.278	35.11	36.26
Ni2316	231.604 {4	In2306	ppm	0.0072	0	0.3262	0.0072	0.0073
P_1782	178.284 {4	In2306	ppm	0.5753	0.0011	0.1872	0.5745	0.5761
Pb2203	220.353 {4	In2306	ppm	0.0014	0.0005	38.28	0.001	0.0018
S_1820	182.034 {4	Y_2243	ppm	-610.9	0.6841	0.112	-610.4	-611.4
Sb2068	206.833 {4	Y_2243	ppm	-0.0011	0.0014	130.5	-0.0001	-0.0021
Se1960	196.090 {4	Y_2243	ppm	0.0021	0.001	49.97	0.0014	0.0028
Si2516	251.611 {1	Y_3710	ppm	3.042	0.0592	1.946	3	3.083
Sn1899	189.989 {4	In2306	ppm	0	0.0003	596.7	-0.0001	0.0002
Sr4215	421.552 {	Y_3710	ppm	0.0594	0.0014	2.283	0.0585	0.0604
Ti3349	334.904 {1	Y_3600	ppm	0.0011	0.0003	28.4	0.0009	0.0013
Tl1908	190.856 {4	In2306	ppm	0.0318	0.0035	10.85	0.0294	0.0343
V_2924	292.402 {1	Y_3600	ppm	0.0004	0.0001	19.13	0.0004	0.0005
Zn2062	206.200 {4	In2306	ppm	0.084	0.0002	0.2518	0.0842	0.0839

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1057.9	16.755	1.5838	1069.7	1046
In2306	230.606 {4	Cts/S	18397	17.229	0.09365	18409	18384
Y_2243	224.306 {4	Cts/S	21399	29.691	0.13875	21420	21378
Y_3600	360.073 {	Cts/S	203550	7249.7	3.5616	198430	208680
Y_3710	371.030 {	Cts/S	60761	988.51	1.6269	61460	60062

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60770-a-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:15:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0002	38.9	0.0003	0.0006
Al3082	308.215 {1	In2306	ppm	0.5307	0.0012	0.2283	0.5316	0.5299
As1890	189.042 {4	Y_2243	ppm	0.0102	0.0004	3.6	0.0105	0.01
B_2496	249.678 {1	Y_3710	ppm	0.2253	0.0015	0.6502	0.2264	0.2243
Ba4554	455.403 {	Y_3710	ppm	0.1085	0.0007	0.6333	0.108	0.109
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	30.02	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	47.26	0.4576	0.9682	46.94	47.58
Ca3181	318.128 {1	In2306	ppm	40.08	0.3047	0.7602	39.86	40.3
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	18.48	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	-0.0001	0	15.05	-0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0017	0.0002	11.7	0.0016	0.0019
Cu3247	324.754 {1	Y_3600	ppm	0.008	0.0006	7.567	0.0076	0.0085
Fe2404	240.488 {1	In2306	ppm	0.635	0.0057	0.9052	0.6309	0.6391
K_7664	766.490 {	Y_3710	ppm	8.371	0.0012	0.0141	8.372	8.37
K_7698	769.896 {	Y_3710	ppm	8.729	0.0125	0.1431	8.737	8.72
Li6707	670.784 {	Y_3710	ppm	0.0054	0.0003	5.947	0.0052	0.0057
Mg2790	279.079 {1	Y_3710	ppm	4.353	0.0109	0.2497	4.361	4.346
Mn2576	257.610 {1	Y_3600	ppm	0.0656	0.0006	0.9296	0.066	0.0652
Mn2576-2	257.610 {1	Y_3710	ppm	0.066	0.0004	0.5371	0.0657	0.0662
Mo2020	202.030 {4	Y_2243	ppm	0.0329	0.0011	3.241	0.0321	0.0336
Na5895	589.592 {	Y_3710	ppm	62.53	0.0445	0.0712	62.5	62.56
Na8183	818.326 {	Y_3710	ppm	64.19	0.0217	0.0338	64.18	64.21
Ni2316	231.604 {4	In2306	ppm	0.0024	0.0002	8.757	0.0023	0.0026
P_1782	178.284 {4	In2306	ppm	1.606	0.0604	3.757	1.564	1.649
Pb2203	220.353 {4	In2306	ppm	0	0.001	31420	-0.0007	0.0007
S_1820	182.034 {4	Y_2243	ppm	-2497	83.95	3.362	-2438	-2556
Sb2068	206.833 {4	Y_2243	ppm	-0.0008	0.0008	105.4	-0.0013	-0.0002
Se1960	196.090 {4	Y_2243	ppm	0.002	0.0006	32.46	0.0015	0.0024
Si2516	251.611 {1	Y_3710	ppm	7.026	0.047	0.6691	6.992	7.059
Sn1899	189.989 {4	In2306	ppm	0.0001	0	13.21	0.0001	0.0001
Sr4215	421.552 {	Y_3710	ppm	0.1825	0.0006	0.3273	0.182	0.1829
Ti3349	334.904 {1	Y_3600	ppm	0.009	0	0.5203	0.009	0.009
Tl1908	190.856 {4	In2306	ppm	0.0233	0.0032	13.9	0.021	0.0256
V_2924	292.402 {1	Y_3600	ppm	0.0078	0.0002	3.053	0.008	0.0076
Zn2062	206.200 {4	In2306	ppm	0.0359	0.0014	3.952	0.0349	0.0369

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1063	7.0203	0.66042	1068	1058
In2306	230.606 {4	Cts/S	17241	512.99	2.9754	17604	16878
Y_2243	224.306 {4	Cts/S	20646	582.42	2.821	21058	20234
Y_3600	360.073 {	Cts/S	196490	1349.4	0.68677	195540	197450
Y_3710	371.030 {	Cts/S	61363	283.5	0.462	61564	61163

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60770-a-4-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:17:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0002	38.18	0.0005	0.0008
Al3082	308.215 {1	In2306	ppm	0.5601	0.0144	2.568	0.5702	0.5499
As1890	189.042 {4	Y_2243	ppm	0.0105	0.0004	3.931	0.0102	0.0108
B_2496	249.678 {1	Y_3710	ppm	0.2261	0.0026	1.16	0.2279	0.2242
Ba4554	455.403 {	Y_3710	ppm	0.1108	0.0002	0.2079	0.1109	0.1106
Be3130	313.042 {1	Y_3710	ppm	0	0	70.89	0.0001	0
Ca3158	315.887 {1	In2306	ppm	47.54	0.0392	0.0826	47.56	47.51
Ca3181	318.128 {1	In2306	ppm	40.36	0.0222	0.0551	40.34	40.37
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	0.1233	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0	0	771.4	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.002	0.0002	8.741	0.0022	0.0019
Cu3247	324.754 {1	Y_3600	ppm	0.0087	0.0001	1.419	0.0088	0.0087
Fe2404	240.488 {1	In2306	ppm	0.6455	0.0012	0.1847	0.6464	0.6447
K_7664	766.490 {	Y_3710	ppm	8.485	0.0167	0.1965	8.473	8.497
K_7698	769.896 {	Y_3710	ppm	8.878	0.0364	0.4097	8.852	8.904
Li6707	670.784 {	Y_3710	ppm	0.0054	0.0003	4.94	0.0056	0.0052
Mg2790	279.079 {1	Y_3710	ppm	4.38	0.0133	0.303	4.389	4.371
Mn2576	257.610 {1	Y_3600	ppm	0.0662	0.0006	0.9481	0.0658	0.0667
Mn2576-2	257.610 {1	Y_3710	ppm	0.0666	0.0007	0.9825	0.0662	0.0671
Mo2020	202.030 {4	Y_2243	ppm	0.0329	0.0005	1.547	0.0333	0.0326
Na5895	589.592 {	Y_3710	ppm	63.73	0.1495	0.2346	63.63	63.84
Na8183	818.326 {	Y_3710	ppm	65.07	0.299	0.4595	64.86	65.28
Ni2316	231.604 {4	In2306	ppm	0.0026	0.0002	9.546	0.0024	0.0027
P_1782	178.284 {4	In2306	ppm	1.579	0.0104	0.6564	1.586	1.572
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0001	18.14	0.0004	0.0005
S_1820	182.034 {4	Y_2243	ppm	-2470	18.44	0.7463	-2483	-2457
Sb2068	206.833 {4	Y_2243	ppm	-0.0011	0.0022	190.7	-0.0027	0.0004
Se1960	196.090 {4	Y_2243	ppm	0.0019	0.0006	32.91	0.0023	0.0014
Si2516	251.611 {1	Y_3710	ppm	7.184	0.0067	0.0931	7.189	7.18
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0001	92.04	0.0001	0
Sr4215	421.552 {	Y_3710	ppm	0.1853	0.0001	0.0494	0.1853	0.1854
Ti3349	334.904 {1	Y_3600	ppm	0.0109	0.0011	9.8	0.0101	0.0116
Tl1908	190.856 {4	In2306	ppm	0.0169	0.0018	10.41	0.0157	0.0182
V_2924	292.402 {1	Y_3600	ppm	0.0077	0.0001	0.6801	0.0077	0.0076
Zn2062	206.200 {4	In2306	ppm	0.0349	0.0002	0.6853	0.0351	0.0347

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1058.5	0.24689	0.02333	1058.3	1058.7
In2306	230.606 {4	Cts/S	17462	118.61	0.67927	17378	17546
Y_2243	224.306 {4	Cts/S	20815	145.35	0.69829	20712	20918
Y_3600	360.073 {	Cts/S	195690	1818.3	0.92918	196970	194400
Y_3710	371.030 {	Cts/S	60809	261.05	0.4293	60625	60994

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60770-a-4-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:20:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5657	0.0044	0.7708	0.5626	0.5687
Al3082	308.215 {1	In2306	ppm	11.63	0.1059	0.911	11.55	11.7
As1890	189.042 {4	Y_2243	ppm	1.14	0.0125	1.095	1.149	1.131
B_2496	249.678 {1	Y_3710	ppm	1.221	0.0003	0.023	1.221	1.221
Ba4554	455.403 {	Y_3710	ppm	1.157	0.0009	0.0771	1.157	1.158
Be3130	313.042 {1	Y_3710	ppm	0.5238	0.0009	0.1813	0.5232	0.5245
Ca3158	315.887 {1	In2306	ppm	60.63	0.579	0.9551	60.22	61.04
Ca3181	318.128 {1	In2306	ppm	51.28	0.2176	0.4244	51.12	51.43
Cd2288	228.802 {4	Y_2243	ppm	0.5349	0.0083	1.56	0.5408	0.529
Co2286	228.616 {4	In2306	ppm	1.014	0.0178	1.758	1.026	1.001
Cr2677	267.716 {1	Y_3600	ppm	1.021	0.0043	0.42	1.024	1.018
Cu3247	324.754 {1	Y_3600	ppm	1.102	0.0077	0.6978	1.097	1.108
Fe2404	240.488 {1	In2306	ppm	11.3	0.045	0.398	11.27	11.33
K_7664	766.490 {	Y_3710	ppm	18.69	0.0162	0.0868	18.68	18.7
K_7698	769.896 {	Y_3710	ppm	19.48	0.0813	0.4175	19.42	19.53
Li6707	670.784 {	Y_3710	ppm	0.5493	0.0038	0.6913	0.5466	0.552
Mg2790	279.079 {1	Y_3710	ppm	14.31	0.0903	0.6315	14.24	14.37
Mn2576	257.610 {1	Y_3600	ppm	1.254	0.0002	0.019	1.254	1.254
Mn2576-2	257.610 {1	Y_3710	ppm	1.268	0.0093	0.7338	1.261	1.275
Mo2020	202.030 {4	Y_2243	ppm	1.194	0.0209	1.748	1.209	1.179
Na5895	589.592 {	Y_3710	ppm	73.57	0.252	0.3426	73.39	73.75
Na8183	818.326 {	Y_3710	ppm	75.07	0.1757	0.234	74.95	75.2
Ni2316	231.604 {4	In2306	ppm	0.9559	0.0176	1.837	0.9684	0.9435
P_1782	178.284 {4	In2306	ppm	1.592	0.0281	1.763	1.612	1.573
Pb2203	220.353 {4	In2306	ppm	1.042	0.0133	1.281	1.052	1.033
S_1820	182.034 {4	Y_2243	ppm	-2409	39.3	1.631	-2437	-2381
Sb2068	206.833 {4	Y_2243	ppm	1.067	0.0182	1.708	1.08	1.054
Se1960	196.090 {4	Y_2243	ppm	1.152	0.017	1.478	1.164	1.14
Si2516	251.611 {1	Y_3710	ppm	8.447	0.0034	0.0408	8.444	8.449
Sn1899	189.989 {4	In2306	ppm	1.085	0.0181	1.67	1.098	1.073
Sr4215	421.552 {	Y_3710	ppm	0.7432	0.0042	0.564	0.7403	0.7462
Ti3349	334.904 {1	Y_3600	ppm	1.013	0.0041	0.4077	1.01	1.016
Tl1908	190.856 {4	In2306	ppm	0.4317	0.0547	12.67	0.4704	0.3931
V_2924	292.402 {1	Y_3600	ppm	0.995	0.0003	0.0258	0.9948	0.9952
Zn2062	206.200 {4	In2306	ppm	1.034	0.0178	1.72	1.047	1.022

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1032.8	7.1704	0.69428	1037.9	1027.7
In2306	230.606 {4	Cts/S	17010	210.31	1.2364	16861	17159
Y_2243	224.306 {4	Cts/S	21086	235.27	1.1158	20920	21253
Y_3600	360.073 {	Cts/S	194980	617.6	0.31676	195410	194540
Y_3710	371.030 {	Cts/S	60770	163.02	0.26825	60885	60655

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60770-a-4-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:22:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5672	0.0148	2.611	0.5776	0.5567
Al3082	308.215 {1	In2306	ppm	11.35	0.13	1.146	11.26	11.44
As1890	189.042 {4	Y_2243	ppm	1.139	0.0182	1.594	1.152	1.126
B_2496	249.678 {1	Y_3710	ppm	1.199	0.0023	0.1892	1.198	1.201
Ba4554	455.403 {	Y_3710	ppm	1.134	0.0008	0.0743	1.133	1.134
Be3130	313.042 {1	Y_3710	ppm	0.5126	0.0014	0.2814	0.5116	0.5136
Ca3158	315.887 {1	In2306	ppm	59.76	0.308	0.5153	59.54	59.98
Ca3181	318.128 {1	In2306	ppm	50.53	0.3923	0.7763	50.25	50.81
Cd2288	228.802 {4	Y_2243	ppm	0.5362	0.0088	1.639	0.5424	0.53
Co2286	228.616 {4	In2306	ppm	1.017	0.0159	1.562	1.028	1.006
Cr2677	267.716 {1	Y_3600	ppm	1.027	0.0315	3.072	1.049	1.004
Cu3247	324.754 {1	Y_3600	ppm	1.099	0.0315	2.866	1.122	1.077
Fe2404	240.488 {1	In2306	ppm	11	0.1205	1.096	10.91	11.08
K_7664	766.490 {	Y_3710	ppm	18.51	0.0387	0.209	18.53	18.48
K_7698	769.896 {	Y_3710	ppm	19.15	0.0121	0.0631	19.16	19.15
Li6707	670.784 {	Y_3710	ppm	0.5396	0.0031	0.5806	0.5418	0.5374
Mg2790	279.079 {1	Y_3710	ppm	14.08	0.0426	0.3028	14.05	14.11
Mn2576	257.610 {1	Y_3600	ppm	1.27	0.0368	2.893	1.296	1.244
Mn2576-2	257.610 {1	Y_3710	ppm	1.245	0.0047	0.3779	1.248	1.241
Mo2020	202.030 {4	Y_2243	ppm	1.205	0.0203	1.687	1.22	1.191
Na5895	589.592 {	Y_3710	ppm	73.49	0.2194	0.2986	73.65	73.34
Na8183	818.326 {	Y_3710	ppm	75.51	0.0026	0.0035	75.51	75.51
Ni2316	231.604 {4	In2306	ppm	0.9567	0.0141	1.469	0.9666	0.9467
P_1782	178.284 {4	In2306	ppm	1.633	0.0298	1.823	1.654	1.612
Pb2203	220.353 {4	In2306	ppm	1.043	0.015	1.437	1.054	1.032
S_1820	182.034 {4	Y_2243	ppm	-2470	42.14	1.707	-2499	-2440
Sb2068	206.833 {4	Y_2243	ppm	1.07	0.0175	1.637	1.082	1.058
Se1960	196.090 {4	Y_2243	ppm	1.156	0.017	1.467	1.168	1.144
Si2516	251.611 {1	Y_3710	ppm	8.457	0.028	0.3308	8.437	8.477
Sn1899	189.989 {4	In2306	ppm	1.092	0.0168	1.543	1.104	1.08
Sr4215	421.552 {	Y_3710	ppm	0.734	0.0015	0.201	0.7329	0.735
Ti3349	334.904 {1	Y_3600	ppm	1.016	0.0357	3.515	1.042	0.991
Tl1908	190.856 {4	In2306	ppm	0.6453	0.0547	8.481	0.684	0.6066
V_2924	292.402 {1	Y_3600	ppm	0.9955	0.0327	3.283	1.019	0.9724
Zn2062	206.200 {4	In2306	ppm	1.037	0.0147	1.413	1.047	1.027

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1046.3	3.7068	0.35429	1048.9	1043.6
In2306	230.606 {4	Cts/S	16849	194.06	1.1518	16711	16986
Y_2243	224.306 {4	Cts/S	20887	262.47	1.2566	20702	21073
Y_3600	360.073 {	Cts/S	192230	4956	2.5782	188720	195730
Y_3710	371.030 {	Cts/S	61419	259.46	0.42245	61236	61603

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60771-a-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:24:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0002	76.18	0.0001	0.0004
Al3082	308.215 {1	In2306	ppm	0.5964	0.0223	3.735	0.6122	0.5807
As1890	189.042 {4	Y_2243	ppm	0.0293	0.0006	2.15	0.0289	0.0297
B_2496	249.678 {1	Y_3710	ppm	0.2679	0.0044	1.646	0.2711	0.2648
Ba4554	455.403 {	Y_3710	ppm	0.1954	0.0037	1.916	0.1981	0.1928
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	15.5	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	61.98	1.412	2.278	62.98	60.98
Ca3181	318.128 {1	In2306	ppm	52.23	1.38	2.642	53.21	51.25
Cd2288	228.802 {4	Y_2243	ppm	0.0009	0.0009	97.52	0.0003	0.0015
Co2286	228.616 {4	In2306	ppm	0.0015	0.0018	121.8	0.0002	0.0028
Cr2677	267.716 {1	Y_3600	ppm	0.0029	0	0.1043	0.0029	0.0029
Cu3247	324.754 {1	Y_3600	ppm	0.0279	0.0001	0.4148	0.028	0.0278
Fe2404	240.488 {1	In2306	ppm	0.6563	0.0177	2.704	0.6688	0.6437
K_7664	766.490 {	Y_3710	ppm	13.74	0.3123	2.274	13.96	13.51
K_7698	769.896 {	Y_3710	ppm	14.28	0.2676	1.875	14.46	14.09
Li6707	670.784 {	Y_3710	ppm	0.0076	0	0.1249	0.0076	0.0076
Mg2790	279.079 {1	Y_3710	ppm	6.87	0.1962	2.855	7.008	6.731
Mn2576	257.610 {1	Y_3600	ppm	0.0483	0.0005	0.965	0.0486	0.048
Mn2576-2	257.610 {1	Y_3710	ppm	0.0474	0.0011	2.234	0.0482	0.0467
Mo2020	202.030 {4	Y_2243	ppm	0.0159	0.0029	18.13	0.0139	0.018
Na5895	589.592 {	Y_3710	ppm	235.2	3.179	1.352	237.5	233
Na8183	818.326 {	Y_3710	ppm	244.8	5.534	2.261	248.7	240.9
Ni2316	231.604 {4	In2306	ppm	0.0049	0.0014	28.05	0.0039	0.0059
P_1782	178.284 {4	In2306	ppm	3.848	0.1488	3.866	3.954	3.743
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0021	540.5	-0.0011	0.0019
S_1820	182.034 {4	Y_2243	ppm	-7546	241.6	3.202	-7717	-7375
Sb2068	206.833 {4	Y_2243	ppm	0.0065	0.0027	41.62	0.0046	0.0084
Se1960	196.090 {4	Y_2243	ppm	0.0035	0.0023	64.24	0.0019	0.0051
Si2516	251.611 {1	Y_3710	ppm	8.277	0.1737	2.099	8.399	8.154
Sn1899	189.989 {4	In2306	ppm	0.0033	0.0028	85.74	0.0013	0.0052
Sr4215	421.552 {	Y_3710	ppm	0.2381	0.0055	2.293	0.242	0.2343
Ti3349	334.904 {1	Y_3600	ppm	0.0035	0.0004	11.31	0.0032	0.0038
Tl1908	190.856 {4	In2306	ppm	0.2446	0.0027	1.12	0.2427	0.2465
V_2924	292.402 {1	Y_3600	ppm	0.0115	0	0.1729	0.0114	0.0115
Zn2062	206.200 {4	In2306	ppm	0.0359	0.0005	1.424	0.0355	0.0362

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1038.1	21.231	2.0452	1023.1	1053.1
In2306	230.606 {4	Cts/S	16124	446.31	2.768	15809	16440
Y_2243	224.306 {4	Cts/S	20199	543.71	2.6917	19815	20584
Y_3600	360.073 {	Cts/S	185630	191.21	0.103	185500	185770
Y_3710	371.030 {	Cts/S	60260	1168.7	1.9395	59434	61086

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60648-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:26:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0	4.275	0.0004	0.0004
Al3082	308.215 {1	In2306	ppm	1.45	0.0166	1.147	1.438	1.462
As1890	189.042 {4	Y_2243	ppm	0.0029	0.0008	26.23	0.0035	0.0024
B_2496	249.678 {1	Y_3710	ppm	0.169	0.0031	1.842	0.1712	0.1668
Ba4554	455.403 {	Y_3710	ppm	0.061	0.0001	0.2235	0.0609	0.0611
Be3130	313.042 {1	Y_3710	ppm	0.0002	0	16.12	0.0002	0.0002
Ca3158	315.887 {1	In2306	ppm	84.72	0.4347	0.5131	84.42	85.03
Ca3181	318.128 {1	In2306	ppm	71.03	0.2552	0.3593	70.85	71.21
Cd2288	228.802 {4	Y_2243	ppm	0.0005	0	7.503	0.0005	0.0006
Co2286	228.616 {4	In2306	ppm	0.0016	0.0001	6.216	0.0017	0.0016
Cr2677	267.716 {1	Y_3600	ppm	0.0051	0.0003	5.919	0.0049	0.0053
Cu3247	324.754 {1	Y_3600	ppm	0.0304	0.0001	0.3188	0.0305	0.0303
Fe2404	240.488 {1	In2306	ppm	1.092	0.0046	0.4196	1.089	1.096
K_7664	766.490 {	Y_3710	ppm	7.254	0.0302	0.4163	7.233	7.276
K_7698	769.896 {	Y_3710	ppm	7.624	0.0034	0.0441	7.627	7.622
Li6707	670.784 {	Y_3710	ppm	0.0033	0.0002	4.66	0.0034	0.0032
Mg2790	279.079 {1	Y_3710	ppm	4.181	0.0215	0.514	4.196	4.166
Mn2576	257.610 {1	Y_3600	ppm	0.1778	0.001	0.546	0.1785	0.1771
Mn2576-2	257.610 {1	Y_3710	ppm	0.1768	0.0004	0.2193	0.1765	0.177
Mo2020	202.030 {4	Y_2243	ppm	0.0046	0.0002	4.322	0.0044	0.0047
Na5895	589.592 {	Y_3710	ppm	4.26	0.0109	0.2558	4.253	4.268
Na8183	818.326 {	Y_3710	ppm	4.25	0.0082	0.1934	4.245	4.256
Ni2316	231.604 {4	In2306	ppm	0.0046	0	0.4958	0.0046	0.0046
P_1782	178.284 {4	In2306	ppm	0.4911	0.0028	0.5734	0.4891	0.4931
Pb2203	220.353 {4	In2306	ppm	0.024	0.0006	2.482	0.0244	0.0236
S_1820	182.034 {4	Y_2243	ppm	-690.9	3.345	0.4842	-693.3	-688.5
Sb2068	206.833 {4	Y_2243	ppm	-0.0004	0	2.444	-0.0003	-0.0004
Se1960	196.090 {4	Y_2243	ppm	0.0029	0.0018	61.36	0.0042	0.0016
Si2516	251.611 {1	Y_3710	ppm	3.074	0.0053	0.1711	3.077	3.07
Sn1899	189.989 {4	In2306	ppm	0.0006	0	0.6496	0.0006	0.0006
Sr4215	421.552 {	Y_3710	ppm	0.1148	0.0005	0.4689	0.1144	0.1152
Ti3349	334.904 {1	Y_3600	ppm	0.0124	0.0003	2.6	0.0122	0.0127
Tl1908	190.856 {4	In2306	ppm	0.1433	0.0067	4.655	0.1386	0.148
V_2924	292.402 {1	Y_3600	ppm	0.0116	0.0003	2.401	0.0114	0.0118
Zn2062	206.200 {4	In2306	ppm	0.1177	0.001	0.808	0.1184	0.117

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1060.1	1.8545	0.17495	1061.4	1058.7
In2306	230.606 {4	Cts/S	18077	159.08	0.87999	17965	18190
Y_2243	224.306 {4	Cts/S	21102	232.75	1.103	20937	21267
Y_3600	360.073 {	Cts/S	197520	337.16	0.1707	197280	197750
Y_3710	371.030 {	Cts/S	61330	280.51	0.45737	61132	61529

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60648-b-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:29:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0003	90.78	0.0006	0.0001
Al3082	308.215 {1	In2306	ppm	4.982	0.0255	0.5127	5	4.964
As1890	189.042 {4	Y_2243	ppm	0.0031	0.0004	12.23	0.0034	0.0028
B_2496	249.678 {1	Y_3710	ppm	0.1667	0.0019	1.112	0.168	0.1654
Ba4554	455.403 {	Y_3710	ppm	0.1918	0.0003	0.1767	0.192	0.1916
Be3130	313.042 {1	Y_3710	ppm	0.0004	0	7.237	0.0004	0.0004
Ca3158	315.887 {1	In2306	ppm	142.6	0.0784	0.055	142.6	142.7
Ca3181	318.128 {1	In2306	ppm	118.8	0.0253	0.0213	118.8	118.7
Cd2288	228.802 {4	Y_2243	ppm	0.0018	0	1.229	0.0018	0.0018
Co2286	228.616 {4	In2306	ppm	0.0031	0.0001	2.069	0.0032	0.0031
Cr2677	267.716 {1	Y_3600	ppm	0.0134	0.0001	0.432	0.0135	0.0134
Cu3247	324.754 {1	Y_3600	ppm	0.0836	0.0001	0.0822	0.0836	0.0835
Fe2404	240.488 {1	In2306	ppm	3.002	0.0069	0.23	2.997	3.007
K_7664	766.490 {	Y_3710	ppm	5.613	0.0097	0.1722	5.62	5.606
K_7698	769.896 {	Y_3710	ppm	5.912	0.0178	0.3005	5.9	5.925
Li6707	670.784 {	Y_3710	ppm	0.0085	0.0004	4.307	0.0083	0.0088
Mg2790	279.079 {1	Y_3710	ppm	5.968	0.0207	0.3466	5.954	5.983
Mn2576	257.610 {1	Y_3600	ppm	0.333	0.0015	0.4443	0.3319	0.334
Mn2576-2	257.610 {1	Y_3710	ppm	0.3336	0.0015	0.4625	0.3347	0.3325
Mo2020	202.030 {4	Y_2243	ppm	0.003	0.0001	4.308	0.0031	0.0029
Na5895	589.592 {	Y_3710	ppm	2.567	0.0046	0.1775	2.571	2.564
Na8183	818.326 {	Y_3710	ppm	2.565	0.0942	3.671	2.632	2.499
Ni2316	231.604 {4	In2306	ppm	0.0098	0	0.018	0.0098	0.0098
P_1782	178.284 {4	In2306	ppm	0.5634	0.0005	0.0976	0.563	0.5638
Pb2203	220.353 {4	In2306	ppm	0.1458	0.0007	0.4811	0.1463	0.1453
S_1820	182.034 {4	Y_2243	ppm	-346	0.1951	0.0564	-345.9	-346.2
Sb2068	206.833 {4	Y_2243	ppm	-0.0006	0.0001	24.42	-0.0007	-0.0005
Se1960	196.090 {4	Y_2243	ppm	0.0033	0.0011	34.58	0.0041	0.0025
Si2516	251.611 {1	Y_3710	ppm	5.256	0.0022	0.041	5.255	5.258
Sn1899	189.989 {4	In2306	ppm	0.0007	0.0003	41.55	0.0008	0.0005
Sr4215	421.552 {	Y_3710	ppm	0.1637	0.0006	0.3619	0.1642	0.1633
Ti3349	334.904 {1	Y_3600	ppm	0.0383	0.0001	0.2655	0.0384	0.0382
Tl1908	190.856 {4	In2306	ppm	0.0935	0.0074	7.953	0.0882	0.0987
V_2924	292.402 {1	Y_3600	ppm	0.0161	0.0002	1.222	0.0159	0.0162
Zn2062	206.200 {4	In2306	ppm	0.5257	0.001	0.1913	0.5264	0.525

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.3	2.0994	0.19931	1051.8	1054.8
In2306	230.606 {4	Cts/S	17405	29.942	0.17203	17384	17426
Y_2243	224.306 {4	Cts/S	20914	57.83	0.27652	20873	20954
Y_3600	360.073 {	Cts/S	197650	377.17	0.19083	197380	197920
Y_3710	371.030 {	Cts/S	61592	31.982	0.05193	61614	61569

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:31:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.265	0.0006	0.2232	0.2654	0.2645
Al3082	308.215 {1	In2306	ppm	2.471	0.0181	0.7335	2.459	2.484
As1890	189.042 {4	Y_2243	ppm	0.5434	0.0074	1.358	0.5381	0.5486
B_2496	249.678 {1	Y_3710	ppm	0.561	0.0016	0.2874	0.5621	0.5598
Ba4554	455.403 {	Y_3710	ppm	0.4913	0.0001	0.0135	0.4913	0.4914
Be3130	313.042 {1	Y_3710	ppm	0.49	0.0023	0.4679	0.4883	0.4916
Ca3158	315.887 {1	In2306	ppm	14.51	0.0577	0.3979	14.47	14.55
Ca3181	318.128 {1	In2306	ppm	12.06	0.1039	0.8619	11.98	12.13
Cd2288	228.802 {4	Y_2243	ppm	0.5191	0.0038	0.7251	0.5164	0.5217
Co2286	228.616 {4	In2306	ppm	0.4769	0.0032	0.6617	0.4747	0.4792
Cr2677	267.716 {1	Y_3600	ppm	0.4901	0.0008	0.1585	0.4907	0.4896
Cu3247	324.754 {1	Y_3600	ppm	0.5167	0.0004	0.0682	0.5165	0.517
Fe2404	240.488 {1	In2306	ppm	2.48	0.0199	0.8031	2.466	2.494
K_7664	766.490 {	Y_3710	ppm	12.27	0.0263	0.2146	12.28	12.25
K_7698	769.896 {	Y_3710	ppm	12.83	0.0154	0.1202	12.84	12.81
Li6707	670.784 {	Y_3710	ppm	0.5105	0.0036	0.7009	0.5131	0.508
Mg2790	279.079 {1	Y_3710	ppm	4.698	0.0152	0.3232	4.688	4.709
Mn2576	257.610 {1	Y_3600	ppm	0.5789	0.0029	0.5086	0.5809	0.5768
Mn2576-2	257.610 {1	Y_3710	ppm	0.5885	0.0016	0.2741	0.5874	0.5897
Mo2020	202.030 {4	Y_2243	ppm	0.578	0.0026	0.4512	0.5762	0.5798
Na5895	589.592 {	Y_3710	ppm	12.49	0.024	0.1925	12.47	12.51
Na8183	818.326 {	Y_3710	ppm	12.56	0.1069	0.851	12.49	12.64
Ni2316	231.604 {4	In2306	ppm	0.4491	0.0032	0.7025	0.4469	0.4513
P_1782	178.284 {4	In2306	ppm	0.4936	0.0054	1.088	0.4898	0.4974
Pb2203	220.353 {4	In2306	ppm	0.5012	0.0036	0.7261	0.4986	0.5038
S_1820	182.034 {4	Y_2243	ppm	-182.7	1.619	0.8857	-181.6	-183.9
Sb2068	206.833 {4	Y_2243	ppm	0.5222	0.0003	0.0583	0.5224	0.522
Se1960	196.090 {4	Y_2243	ppm	0.554	0.0056	1.013	0.55	0.558
Si2516	251.611 {1	Y_3710	ppm	0.8631	0.0182	2.111	0.8502	0.876
Sn1899	189.989 {4	In2306	ppm	0.5184	0.003	0.5693	0.5163	0.5205
Sr4215	421.552 {	Y_3710	ppm	0.2651	0.0004	0.1478	0.2654	0.2648
Ti3349	334.904 {1	Y_3600	ppm	0.4678	0.0025	0.5434	0.4696	0.466
Tl1908	190.856 {4	In2306	ppm	0.2596	0.0153	5.912	0.2705	0.2488
V_2924	292.402 {1	Y_3600	ppm	0.4628	0.0035	0.7479	0.4652	0.4604
Zn2062	206.200 {4	In2306	ppm	0.4695	0.004	0.8447	0.4667	0.4723

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1061.9	5.8636	0.55218	1066	1057.7
In2306	230.606 {4	Cts/S	18210	158.15	0.86848	18322	18098
Y_2243	224.306 {4	Cts/S	21132	170.23	0.80556	21252	21011
Y_3600	360.073 {	Cts/S	202570	162.71	0.08032	202460	202690
Y_3710	371.030 {	Cts/S	61049	108.75	0.17813	61126	60972

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:33:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0059	0.0003	5.354	0.0057	0.0062
Al3082	308.215 {1	In2306	ppm	0.0767	0.0012	1.628	0.0758	0.0776
As1890	189.042 {4	Y_2243	ppm	0.0107	0.0017	15.73	0.0095	0.0118
B_2496	249.678 {1	Y_3710	ppm	0.094	0.0014	1.474	0.095	0.0931
Ba4554	455.403 {	Y_3710	ppm	0.01	0	0.1057	0.01	0.0101
Be3130	313.042 {1	Y_3710	ppm	0.0049	0.0001	1.824	0.005	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1262	0.0022	1.724	0.1278	0.1247
Ca3181	318.128 {1	In2306	ppm	0.1279	0.0141	11.02	0.1378	0.1179
Cd2288	228.802 {4	Y_2243	ppm	0.0058	0.0008	14.39	0.0052	0.0064
Co2286	228.616 {4	In2306	ppm	0.0099	0.0007	7.419	0.0094	0.0104
Cr2677	267.716 {1	Y_3600	ppm	0.0101	0.0004	3.554	0.0099	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0167	0.0004	2.636	0.017	0.0164
Fe2404	240.488 {1	In2306	ppm	0.1037	0.0024	2.321	0.102	0.1054
K_7664	766.490 {	Y_3710	ppm	0.9	0.0353	3.928	0.925	0.875
K_7698	769.896 {	Y_3710	ppm	0.9156	0.0146	1.59	0.9259	0.9053
Li6707	670.784 {	Y_3710	ppm	0.0098	0.0005	5.297	0.0101	0.0094
Mg2790	279.079 {1	Y_3710	ppm	0.0757	0.0018	2.374	0.077	0.0745
Mn2576	257.610 {1	Y_3600	ppm	0.0119	0.0002	1.642	0.0117	0.012
Mn2576-2	257.610 {1	Y_3710	ppm	0.0128	0.0004	3.156	0.0125	0.013
Mo2020	202.030 {4	Y_2243	ppm	0.0139	0.0014	10.28	0.0129	0.0149
Na5895	589.592 {	Y_3710	ppm	0.6362	0.0008	0.128	0.6368	0.6357
Na8183	818.326 {	Y_3710	ppm	0.5949	0.0547	9.202	0.5562	0.6336
Ni2316	231.604 {4	In2306	ppm	0.0097	0.0005	4.699	0.0093	0.01
P_1782	178.284 {4	In2306	ppm	0.0062	0.0015	23.67	0.0051	0.0072
Pb2203	220.353 {4	In2306	ppm	0.0113	0.0003	2.55	0.0111	0.0115
S_1820	182.034 {4	Y_2243	ppm	-0.0235	0.3187	1357	0.2019	-0.2489
Sb2068	206.833 {4	Y_2243	ppm	0.0128	0.0019	14.51	0.0115	0.0141
Se1960	196.090 {4	Y_2243	ppm	0.0118	0.0004	3.628	0.0115	0.0122
Si2516	251.611 {1	Y_3710	ppm	0.0082	0.0042	51.38	0.0112	0.0052
Sn1899	189.989 {4	In2306	ppm	0.0111	0.0011	9.709	0.0103	0.0118
Sr4215	421.552 {	Y_3710	ppm	0.0054	0.0001	2.521	0.0055	0.0053
Ti3349	334.904 {1	Y_3600	ppm	0.0094	0	0.5236	0.0094	0.0095
Tl1908	190.856 {4	In2306	ppm	0.1223	0.0045	3.663	0.1191	0.1254
V_2924	292.402 {1	Y_3600	ppm	0.0093	0.0001	0.6926	0.0093	0.0094
Zn2062	206.200 {4	In2306	ppm	0.0095	0.0006	6.258	0.009	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1091.6	0.29583	0.0271	1091.8	1091.4
In2306	230.606 {4	Cts/S	19867	223.34	1.1242	19709	20025
Y_2243	224.306 {4	Cts/S	22199	246.44	1.1101	22025	22374
Y_3600	360.073 {	Cts/S	208560	2974	1.426	210660	206450
Y_3710	371.030 {	Cts/S	61866	208.76	0.33743	62014	61719

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:36:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0002	22	0.0009	0.0006
Al3082	308.215 {1	In2306	ppm	-0.0151	0.0235	155.8	0.0015	-0.0316
As1890	189.042 {4	Y_2243	ppm	-0.0012	0.0002	20.56	-0.0013	-0.001
B_2496	249.678 {1	Y_3710	ppm	0.0817	0.0019	2.301	0.0831	0.0804
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0.0001	41.1	-0.0002	-0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	2498	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0025	0.0034	137.4	-0.0049	-0.0001
Ca3181	318.128 {1	In2306	ppm	0.015	0.0014	9.631	0.0139	0.016
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	32.91	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	5.722	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0001	100.7	0.0001	0
Cu3247	324.754 {1	Y_3600	ppm	0.0055	0.0003	6.196	0.0058	0.0053
Fe2404	240.488 {1	In2306	ppm	0.0078	0.0031	39.39	0.0057	0.01
K_7664	766.490 {	Y_3710	ppm	0.2546	0.0266	10.46	0.2734	0.2358
K_7698	769.896 {	Y_3710	ppm	0.2883	0.0114	3.961	0.2802	0.2964
Li6707	670.784 {	Y_3710	ppm	-0.0006	0.0003	54.61	-0.0004	-0.0008
Mg2790	279.079 {1	Y_3710	ppm	0.0023	0.0104	449.3	-0.005	0.0097
Mn2576	257.610 {1	Y_3600	ppm	0	0	1059	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0003	0.0003	109.5	0.0005	0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0	8.786	0.0003	0.0004
Na5895	589.592 {	Y_3710	ppm	0.0193	0.0014	7.071	0.0183	0.0202
Na8183	818.326 {	Y_3710	ppm	-0.0935	0.0019	2.082	-0.0949	-0.0921
Ni2316	231.604 {4	In2306	ppm	0.0005	0.0001	21.24	0.0005	0.0006
P_1782	178.284 {4	In2306	ppm	-0.002	0	2.14	-0.002	-0.002
Pb2203	220.353 {4	In2306	ppm	0.0003	0	13.59	0.0003	0.0003
S_1820	182.034 {4	Y_2243	ppm	0.1362	0.0888	65.18	0.0734	0.199
Sb2068	206.833 {4	Y_2243	ppm	-0.0009	0.001	118.7	-0.0001	-0.0016
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0022	2188	0.0017	-0.0015
Si2516	251.611 {1	Y_3710	ppm	0.0008	0.0017	216.9	0.002	-0.0004
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0003	188.7	-0.0003	0
Sr4215	421.552 {	Y_3710	ppm	0	0	100.7	0	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0001	258	0	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0792	0.0083	10.45	0.0734	0.0851
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	2.582	-0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0003	0.0001	25.4	-0.0004	-0.0002

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1108.7	3.5226	0.31774	1111.2	1106.2
In2306	230.606 {4	Cts/S	19567	517.97	2.6472	19933	19200
Y_2243	224.306 {4	Cts/S	21795	574.78	2.6372	22201	21388
Y_3600	360.073 {	Cts/S	206710	1815.4	0.87825	205420	207990
Y_3710	371.030 {	Cts/S	62790	373.13	0.59425	62526	63054

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60629-c-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:38:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0003	45.67	0.0008	0.0004
Al3082	308.215 {1	In2306	ppm	0.0433	0.0068	15.6	0.0385	0.0481
As1890	189.042 {4	Y_2243	ppm	0.0035	0.0019	53.24	0.0022	0.0048
B_2496	249.678 {1	Y_3710	ppm	0.1612	0.0003	0.2015	0.1614	0.1609
Ba4554	455.403 {	Y_3710	ppm	0.1063	0.0012	1.171	0.1072	0.1054
Be3130	313.042 {1	Y_3710	ppm	0	0	62.47	0	0.0001
Ca3158	315.887 {1	In2306	ppm	1380	1.745	0.1264	1381	1379
Ca3181	318.128 {1	In2306	ppm	1200	1.148	0.0956	1201	1200
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	19.42	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0.0005	0.0003	48.33	0.0007	0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0039	0.0002	4.317	0.0038	0.004
Cu3247	324.754 {1	Y_3600	ppm	0.0067	0.0003	3.776	0.0069	0.0065
Fe2404	240.488 {1	In2306	ppm	0.189	0.001	0.5482	0.1882	0.1897
K_7664	766.490 {	Y_3710	ppm	10.56	0.0538	0.5097	10.59	10.52
K_7698	769.896 {	Y_3710	ppm	11.23	0.085	0.7574	11.29	11.17
Li6707	670.784 {	Y_3710	ppm	0.0519	0.0012	2.347	0.051	0.0527
Mg2790	279.079 {1	Y_3710	ppm	27.92	0.2827	1.013	28.12	27.72
Mn2576	257.610 {1	Y_3600	ppm	0.0495	0.0002	0.3978	0.0496	0.0493
Mn2576-2	257.610 {1	Y_3710	ppm	0.0489	0	0.0128	0.0489	0.0489
Mo2020	202.030 {4	Y_2243	ppm	0.0049	0.0003	5.938	0.0051	0.0047
Na5895	589.592 {	Y_3710	ppm	2119	21.98	1.037	2135	2104
Na8183	818.326 {	Y_3710	ppm	2824	33.75	1.195	2848	2800
Ni2316	231.604 {4	In2306	ppm	0.0077	0.0005	5.863	0.008	0.0074
P_1782	178.284 {4	In2306	ppm	1.461	0.0504	3.449	1.496	1.425
Pb2203	220.353 {4	In2306	ppm	-0.0069	0.0008	10.88	-0.0074	-0.0064
S_1820	182.034 {4	Y_2243	ppm	-52140	1512	2.9	-53210	-51070
Sb2068	206.833 {4	Y_2243	ppm	-0.0078	0.0008	10.45	-0.0072	-0.0084
Se1960	196.090 {4	Y_2243	ppm	0.0016	0.0012	71.63	0.0008	0.0024
Si2516	251.611 {1	Y_3710	ppm	6.986	0.0957	1.37	7.053	6.918
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0011	1427	-0.0007	0.0009
Sr4215	421.552 {	Y_3710	ppm	2.67	0.0149	0.5564	2.659	2.68
Ti3349	334.904 {1	Y_3600	ppm	0.0062	0.0001	1.429	0.0062	0.0061
Tl1908	190.856 {4	In2306	ppm	0.0572	0.0004	0.6799	0.057	0.0575
V_2924	292.402 {1	Y_3600	ppm	0.0046	0	0.3895	0.0046	0.0045
Zn2062	206.200 {4	In2306	ppm	0.023	0.0007	3.127	0.0235	0.0225

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	905.01	2.7987	0.30925	903.03	906.99
In2306	230.606 {4	Cts/S	11454	180.25	1.5736	11327	11581
Y_2243	224.306 {4	Cts/S	16193	228.8	1.413	16031	16355
Y_3600	360.073 {	Cts/S	150520	659.34	0.43803	150060	150990
Y_3710	371.030 {	Cts/S	54488	621.57	1.1408	54048	54927

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60577-d-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:41:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0003	49.12	0.0008	0.0004
Al3082	308.215 {1	In2306	ppm	0.3846	0.0117	3.032	0.3764	0.3929
As1890	189.042 {4	Y_2243	ppm	0.0027	0.0015	56.81	0.0016	0.0038
B_2496	249.678 {1	Y_3710	ppm	0.2126	0.0011	0.5204	0.2118	0.2134
Ba4554	455.403 {	Y_3710	ppm	0.218	0.0022	0.9877	0.2195	0.2165
Be3130	313.042 {1	Y_3710	ppm	0	0	99.09	0	0.0001
Ca3158	315.887 {1	In2306	ppm	61.06	0.5501	0.9009	61.45	60.67
Ca3181	318.128 {1	In2306	ppm	50.4	0.7121	1.413	50.9	49.89
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	8.682	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	-0.0001	0	11.18	-0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0018	0.0002	10.3	0.0019	0.0017
Cu3247	324.754 {1	Y_3600	ppm	0.0637	0	0.0292	0.0637	0.0637
Fe2404	240.488 {1	In2306	ppm	0.1662	0	0.0254	0.1663	0.1662
K_7664	766.490 {	Y_3710	ppm	12.08	0.0194	0.1608	12.1	12.07
K_7698	769.896 {	Y_3710	ppm	12.7	0.095	0.748	12.77	12.63
Li6707	670.784 {	Y_3710	ppm	0.0131	0.0002	1.501	0.0132	0.0129
Mg2790	279.079 {1	Y_3710	ppm	5.671	0.1039	1.833	5.744	5.597
Mn2576	257.610 {1	Y_3600	ppm	0.0302	0.0003	0.953	0.0304	0.03
Mn2576-2	257.610 {1	Y_3710	ppm	0.0295	0.0009	3.003	0.0301	0.0288
Mo2020	202.030 {4	Y_2243	ppm	0.0008	0.0002	21.76	0.001	0.0007
Na5895	589.592 {	Y_3710	ppm	71.47	0.3035	0.4247	71.68	71.25
Na8183	818.326 {	Y_3710	ppm	72.99	0.1282	0.1756	73.08	72.9
Ni2316	231.604 {4	In2306	ppm	0.0011	0.0001	5.999	0.0011	0.0012
P_1782	178.284 {4	In2306	ppm	6.543	0.0049	0.075	6.54	6.547
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0004	61.24	0.0004	0.0009
S_1820	182.034 {4	Y_2243	ppm	-1164	20.94	1.799	-1149	-1178
Sb2068	206.833 {4	Y_2243	ppm	-0.0011	0.0007	65.8	-0.0006	-0.0017
Se1960	196.090 {4	Y_2243	ppm	0.0039	0.0013	32.58	0.0048	0.003
Si2516	251.611 {1	Y_3710	ppm	11.32	0.1027	0.9066	11.4	11.25
Sn1899	189.989 {4	In2306	ppm	0.0019	0.0003	14.18	0.0021	0.0017
Sr4215	421.552 {	Y_3710	ppm	0.2926	0.0019	0.6647	0.294	0.2912
Ti3349	334.904 {1	Y_3600	ppm	0.0011	0.0001	6.763	0.0011	0.001
Tl1908	190.856 {4	In2306	ppm	0.0393	0.0017	4.399	0.038	0.0405
V_2924	292.402 {1	Y_3600	ppm	0.0033	0.0005	13.85	0.0036	0.003
Zn2062	206.200 {4	In2306	ppm	0.1411	0.0001	0.0434	0.141	0.1411

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.6	0.70072	0.06651	1053.1	1054.1
In2306	230.606 {4	Cts/S	17267	25.646	0.14853	17285	17249
Y_2243	224.306 {4	Cts/S	20552	16.193	0.07879	20563	20541
Y_3600	360.073 {	Cts/S	193620	154.99	0.08005	193510	193730
Y_3710	371.030 {	Cts/S	61167	291.17	0.47603	60961	61373

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=PDS 600-60770-a-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:43:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5402	0.0193	3.576	0.5265	0.5539
Al3082	308.215 {1	In2306	ppm	10.58	0.0597	0.5642	10.54	10.62
As1890	189.042 {4	Y_2243	ppm	1.093	0.0179	1.639	1.106	1.081
B_2496	249.678 {1	Y_3710	ppm	1.118	0.0033	0.2951	1.121	1.116
Ba4554	455.403 {	Y_3710	ppm	1.091	0.0005	0.0417	1.09	1.091
Be3130	313.042 {1	Y_3710	ppm	0.481	0	0.0059	0.481	0.4811
Ca3158	315.887 {1	In2306	ppm	60.25	0.0213	0.0354	60.26	60.23
Ca3181	318.128 {1	In2306	ppm	49.92	0.188	0.3767	49.78	50.05
Cd2288	228.802 {4	Y_2243	ppm	0.5121	0.0067	1.314	0.5168	0.5073
Co2286	228.616 {4	In2306	ppm	0.9548	0.0141	1.477	0.9648	0.9448
Cr2677	267.716 {1	Y_3600	ppm	0.9865	0.0346	3.507	0.962	1.011
Cu3247	324.754 {1	Y_3600	ppm	1.064	0.0389	3.658	1.036	1.091
Fe2404	240.488 {1	In2306	ppm	10.45	0.0309	0.2958	10.43	10.47
K_7664	766.490 {	Y_3710	ppm	17.62	0.0008	0.0047	17.61	17.62
K_7698	769.896 {	Y_3710	ppm	18.44	0.0299	0.1624	18.46	18.42
Li6707	670.784 {	Y_3710	ppm	1.024	0.0001	0.0079	1.024	1.024
Mg2790	279.079 {1	Y_3710	ppm	13.43	0.0225	0.1675	13.45	13.42
Mn2576	257.610 {1	Y_3600	ppm	1.24	0.0375	3.024	1.213	1.266
Mn2576-2	257.610 {1	Y_3710	ppm	1.216	0.0019	0.1558	1.215	1.218
Mo2020	202.030 {4	Y_2243	ppm	1.127	0.0176	1.564	1.139	1.114
Na5895	589.592 {	Y_3710	ppm	72.08	0.012	0.0167	72.08	72.09
Na8183	818.326 {	Y_3710	ppm	73.75	0.0105	0.0142	73.74	73.76
Ni2316	231.604 {4	In2306	ppm	0.9027	0.0129	1.43	0.9119	0.8936
P_1782	178.284 {4	In2306	ppm	2.659	0.0426	1.602	2.689	2.629
Pb2203	220.353 {4	In2306	ppm	1.004	0.0126	1.26	1.013	0.9946
S_1820	182.034 {4	Y_2243	ppm	-2456	27.24	1.109	-2476	-2437
Sb2068	206.833 {4	Y_2243	ppm	1.007	0.0091	0.9054	1.014	1.001
Se1960	196.090 {4	Y_2243	ppm	1.116	0.0137	1.227	1.125	1.106
Si2516	251.611 {1	Y_3710	ppm	7.842	0.0122	0.1562	7.851	7.834
Sn1899	189.989 {4	In2306	ppm	1.031	0.0145	1.407	1.042	1.021
Sr4215	421.552 {	Y_3710	ppm	0.7064	0.0008	0.1074	0.7059	0.707
Ti3349	334.904 {1	Y_3600	ppm	0.9624	0.0343	3.566	0.9381	0.9866
Tl1908	190.856 {4	In2306	ppm	0.9237	0.0163	1.764	0.9352	0.9122
V_2924	292.402 {1	Y_3600	ppm	0.942	0.0342	3.635	0.9178	0.9662
Zn2062	206.200 {4	In2306	ppm	0.9878	0.0134	1.359	0.9973	0.9783

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1043.5	5.0083	0.47996	1047	1040
In2306	230.606 {4	Cts/S	16881	180.8	1.0711	16753	17009
Y_2243	224.306 {4	Cts/S	20761	202.96	0.97762	20617	20904
Y_3600	360.073 {	Cts/S	191060	5496.8	2.877	194950	187170
Y_3710	371.030 {	Cts/S	61461	61.239	0.09964	61505	61418

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=SD 600-60770-a-4a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:45:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0002	26.25	0.0008	0.0005
Al3082	308.215 {1	In2306	ppm	0.093	0.0097	10.41	0.0998	0.0861
As1890	189.042 {4	Y_2243	ppm	0.0026	0.0011	42.7	0.0018	0.0033
B_2496	249.678 {1	Y_3710	ppm	0.0998	0.0001	0.0949	0.0999	0.0997
Ba4554	455.403 {	Y_3710	ppm	0.022	0.0001	0.5291	0.0219	0.0221
Be3130	313.042 {1	Y_3710	ppm	0.0001	0.0001	90.63	0.0001	0
Ca3158	315.887 {1	In2306	ppm	9.754	0.0359	0.3679	9.729	9.779
Ca3181	318.128 {1	In2306	ppm	8.057	0.0307	0.3816	8.035	8.079
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0.0004	105.7	0.0001	0.0006
Co2286	228.616 {4	In2306	ppm	0.0005	0.0006	110.2	0.0001	0.001
Cr2677	267.716 {1	Y_3600	ppm	0.0006	0	0.068	0.0006	0.0006
Cu3247	324.754 {1	Y_3600	ppm	0.0076	0.0003	3.353	0.0074	0.0078
Fe2404	240.488 {1	In2306	ppm	0.1313	0.0044	3.379	0.1282	0.1345
K_7664	766.490 {	Y_3710	ppm	1.813	0.0339	1.869	1.837	1.789
K_7698	769.896 {	Y_3710	ppm	1.885	0.0462	2.453	1.918	1.853
Li6707	670.784 {	Y_3710	ppm	0.0002	0.0003	207.8	0.0004	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	0.8746	0.0066	0.7544	0.8792	0.8699
Mn2576	257.610 {1	Y_3600	ppm	0.0141	0.0001	0.3984	0.0142	0.0141
Mn2576-2	257.610 {1	Y_3710	ppm	0.0142	0	0.034	0.0142	0.0142
Mo2020	202.030 {4	Y_2243	ppm	0.0108	0.0018	16.42	0.0095	0.012
Na5895	589.592 {	Y_3710	ppm	12.48	0.044	0.3523	12.51	12.45
Na8183	818.326 {	Y_3710	ppm	12.6	0.0652	0.5174	12.64	12.55
Ni2316	231.604 {4	In2306	ppm	0.0013	0.0006	46.25	0.0009	0.0017
P_1782	178.284 {4	In2306	ppm	0.2886	0.0042	1.444	0.2916	0.2857
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0012	297.7	-0.0004	0.0012
S_1820	182.034 {4	Y_2243	ppm	-485.3	6.368	1.312	-489.8	-480.8
Sb2068	206.833 {4	Y_2243	ppm	0.0036	0.0019	53.65	0.0022	0.005
Se1960	196.090 {4	Y_2243	ppm	0.0002	0.0018	1048	-0.0011	0.0014
Si2516	251.611 {1	Y_3710	ppm	1.395	0.0143	1.027	1.405	1.385
Sn1899	189.989 {4	In2306	ppm	0.0015	0.001	71.04	0.0007	0.0022
Sr4215	421.552 {	Y_3710	ppm	0.0373	0.0002	0.4719	0.0374	0.0372
Ti3349	334.904 {1	Y_3600	ppm	0.0023	0	0.383	0.0023	0.0023
Tl1908	190.856 {4	In2306	ppm	0.0215	0.0012	5.793	0.0206	0.0224
V_2924	292.402 {1	Y_3600	ppm	0.0015	0.0001	5.96	0.0016	0.0014
Zn2062	206.200 {4	In2306	ppm	0.0083	0.0006	6.845	0.0079	0.0087

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1083.6	3.0643	0.2828	1081.4	1085.7
In2306	230.606 {4	Cts/S	19054	168.14	0.88244	18935	19173
Y_2243	224.306 {4	Cts/S	21559	204.66	0.94929	21414	21704
Y_3600	360.073 {	Cts/S	203070	236.41	0.11642	203230	202900
Y_3710	371.030 {	Cts/S	61785	178.88	0.28951	61659	61912

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87864/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:48:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5664	0.0008	0.1485	0.567	0.5658
Al3082	308.215	{1 In2306	ppm	10.27	0.6611	6.436	9.804	10.74
As1890	189.042	{4 Y_2243	ppm	1.121	0.0075	0.6687	1.127	1.116
B_2496	249.678	{1 Y_3710	ppm	s 1.057	0.0372	3.514	s 1.031	1.084
Ba4554	455.403	{ 7 Y_3710	ppm	s 1.038	0.0337	3.247	s 1.014	1.061
Be3130	313.042	{1 Y_3710	ppm	s .5132	0.0177	3.448	s .5007	0.5257
Ca3158	315.887	{1 In2306	ppm	12.09	0.7636	6.314	11.55	12.63
Ca3181	318.128	{1 In2306	ppm	9.99	0.6152	6.159	9.555	10.42
Cd2288	228.802	{4 Y_2243	ppm	0.5351	0.0029	0.5464	0.5372	0.533
Co2286	228.616	{4 In2306	ppm	0.9928	0.0081	0.8193	0.9985	0.987
Cr2677	267.716	{1 Y_3600	ppm	1.032	0.0123	1.187	1.041	1.024
Cu3247	324.754	{1 Y_3600	ppm	1.1	0.0046	0.4147	1.103	1.096
Fe2404	240.488	{1 In2306	ppm	10.25	0.6577	6.419	9.781	10.71
K_7664	766.490	{ 4 Y_3710	ppm	s 10.27	0.3481	3.388	s 10.03	10.52
K_7698	769.896	{ 4 Y_3710	ppm	s 10.81	0.3294	3.048	s 10.58	11.04
Li6707	670.784	{ 8 Y_3710	ppm	s .5416	0.0155	2.869	s .5306	0.5525
Mg2790	279.079	{1 Y_3710	ppm	s 9.798	0.3652	3.727	s 9.540	10.06
Mn2576	257.610	{1 Y_3600	ppm	k 1.243	0.0074	0.599	k 1.248	1.237
Mn2576-2	257.610	{1 Y_3710	ppm	s 1.231	0.0453	3.678	s 1.199	1.263
Mo2020	202.030	{4 Y_2243	ppm	1.201	0.0091	0.7586	1.207	1.194
Na5895	589.592	{ 8 Y_3710	ppm	s 10.60	0.2942	2.776	s 10.39	10.8
Na8183	818.326	{ 4 Y_3710	ppm	s 10.47	0.3253	3.108	s 10.24	10.7
Ni2316	231.604	{4 In2306	ppm	k .9290	0.007	0.7533	k .9339	0.924
P_1782	178.284	{4 In2306	ppm	-0.0011	0.0009	79.94	-0.0018	-0.0005
Pb2203	220.353	{4 In2306	ppm	k 1.043	0.0073	0.6995	k 1.048	1.038
S_1820	182.034	{4 Y_2243	ppm	-0.9612	0.069	7.174	-1.01	-0.9124
Sb2068	206.833	{4 Y_2243	ppm	1.071	0.0072	0.6766	1.076	1.066
Se1960	196.090	{4 Y_2243	ppm	1.153	0.0069	0.5997	1.157	1.148
Si2516	251.611	{1 Y_3710	ppm	s .8990	0.0511	5.688	s .8629	0.9352
Sn1899	189.989	{4 In2306	ppm	1.076	0.01	0.9311	1.083	1.069
Sr4215	421.552	{ 8 Y_3710	ppm	s .5587	0.0168	3.009	s .5469	0.5706
Ti3349	334.904	{1 Y_3600	ppm	0.9893	0.0081	0.8155	0.995	0.9836
Tl1908	190.856	{4 In2306	ppm	k .4524	0.0583	12.89	k .4936	0.4112
V_2924	292.402	{1 Y_3600	ppm	0.9762	0.0127	1.297	0.9851	0.9672
Zn2062	206.200	{4 In2306	ppm	0.9727	0.0092	0.9444	0.9792	0.9662

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1088.1	51.362	4.7202	1124.5	1051.8
In2306	230.606	{4 Cts/S	18336	90.33	0.49264	18272	18400
Y_2243	224.306	{4 Cts/S	21511	100.23	0.46594	21440	21582
Y_3600	360.073	{ 9 Cts/S	201470	1246.1	0.61851	200590	202350
Y_3710	371.030	{ 9 Cts/S	^ *****	-----	-----	^-----	61131

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87864/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:51:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5612	0.0099	1.757	0.5542	0.5681
Al3082	308.215 {1	In2306	ppm	10.48	0.0383	0.366	10.45	10.5
As1890	189.042 {4	Y_2243	ppm	1.143	0.0235	2.06	1.16	1.127
B_2496	249.678 {1	Y_3710	ppm	1.06	0.0005	0.0496	1.06	1.059
Ba4554	455.403 {	Y_3710	ppm	1.039	0.006	0.5733	1.035	1.044
Be3130	313.042 {1	Y_3710	ppm	0.5119	0.0033	0.64	0.5096	0.5142
Ca3158	315.887 {1	In2306	ppm	12.24	0.074	0.6043	12.19	12.29
Ca3181	318.128 {1	In2306	ppm	10.14	0.0356	0.351	10.12	10.17
Cd2288	228.802 {4	Y_2243	ppm	0.5457	0.0115	2.115	0.5539	0.5375
Co2286	228.616 {4	In2306	ppm	1.009	0.0218	2.159	1.024	0.9936
Cr2677	267.716 {1	Y_3600	ppm	1.026	0.0234	2.277	1.01	1.043
Cu3247	324.754 {1	Y_3600	ppm	1.091	0.0243	2.223	1.074	1.108
Fe2404	240.488 {1	In2306	ppm	10.41	0.0547	0.5258	10.37	10.45
K_7664	766.490 {	Y_3710	ppm	10.31	0.0434	0.421	10.28	10.34
K_7698	769.896 {	Y_3710	ppm	10.8	0.1033	0.9566	10.73	10.87
Li6707	670.784 {	Y_3710	ppm	0.5418	0.0061	1.127	0.5374	0.5461
Mg2790	279.079 {1	Y_3710	ppm	9.765	0.0583	0.5965	9.724	9.807
Mn2576	257.610 {1	Y_3600	ppm	1.232	0.0242	1.968	1.215	1.249
Mn2576-2	257.610 {1	Y_3710	ppm	1.227	0.0152	1.238	1.217	1.238
Mo2020	202.030 {4	Y_2243	ppm	1.23	0.026	2.115	1.249	1.212
Na5895	589.592 {	Y_3710	ppm	10.58	0.0945	0.8929	10.51	10.65
Na8183	818.326 {	Y_3710	ppm	10.76	0.0534	0.4962	10.79	10.72
Ni2316	231.604 {4	In2306	ppm	0.9419	0.0202	2.144	0.9562	0.9276
P_1782	178.284 {4	In2306	ppm	-0.0022	0.0007	33.12	-0.0028	-0.0017
Pb2203	220.353 {4	In2306	ppm	1.06	0.021	1.978	1.075	1.045
S_1820	182.034 {4	Y_2243	ppm	-0.3956	0.0267	6.743	-0.4145	-0.3767
Sb2068	206.833 {4	Y_2243	ppm	1.095	0.0255	2.327	1.113	1.077
Se1960	196.090 {4	Y_2243	ppm	1.178	0.0233	1.983	1.194	1.161
Si2516	251.611 {1	Y_3710	ppm	0.897	0.0134	1.495	0.8875	0.9065
Sn1899	189.989 {4	In2306	ppm	1.097	0.0195	1.777	1.111	1.084
Sr4215	421.552 {	Y_3710	ppm	0.5585	0.0037	0.6684	0.5558	0.5611
Ti3349	334.904 {1	Y_3600	ppm	0.9847	0.0217	2.201	0.9694	1
Tl1908	190.856 {4	In2306	ppm	0.6227	0.0629	10.1	0.6672	0.5782
V_2924	292.402 {1	Y_3600	ppm	0.9726	0.0228	2.345	0.9565	0.9887
Zn2062	206.200 {4	In2306	ppm	0.9874	0.0194	1.961	1.001	0.9737

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1069.9	7.4858	0.69967	1075.2	1064.6
In2306	230.606 {4	Cts/S	18086	246.24	1.3615	17911	18260
Y_2243	224.306 {4	Cts/S	21147	284.15	1.3437	20946	21348
Y_3600	360.073 {	Cts/S	201790	3336.6	1.6535	204150	199430
Y_3710	371.030 {	Cts/S	62398	571	0.91509	62802	61994

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:53:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2682	0.0008	0.2978	0.2676	0.2687
Al3082	308.215 {1	In2306	ppm	2.433	0.0059	0.2427	2.437	2.429
As1890	189.042 {4	Y_2243	ppm	0.5366	0.0099	1.838	0.5436	0.5297
B_2496	249.678 {1	Y_3710	ppm	0.5446	0.0039	0.7151	0.5474	0.5419
Ba4554	455.403 {	Y_3710	ppm	0.4902	0.0009	0.1792	0.4909	0.4896
Be3130	313.042 {1	Y_3710	ppm	0.4875	0.0001	0.0126	0.4874	0.4875
Ca3158	315.887 {1	In2306	ppm	14.54	0.155	1.066	14.43	14.65
Ca3181	318.128 {1	In2306	ppm	11.9	0.0905	0.7605	11.84	11.97
Cd2288	228.802 {4	Y_2243	ppm	0.5085	0.0079	1.544	0.514	0.5029
Co2286	228.616 {4	In2306	ppm	0.4675	0.0087	1.87	0.4737	0.4613
Cr2677	267.716 {1	Y_3600	ppm	0.4992	0.0024	0.4903	0.4975	0.501
Cu3247	324.754 {1	Y_3600	ppm	0.524	0.0042	0.802	0.5211	0.527
Fe2404	240.488 {1	In2306	ppm	2.45	0.0126	0.5159	2.441	2.459
K_7664	766.490 {	Y_3710	ppm	12.17	0.0765	0.6281	12.23	12.12
K_7698	769.896 {	Y_3710	ppm	12.76	0.036	0.2824	12.78	12.73
Li6707	670.784 {	Y_3710	ppm	0.51	0.0058	1.129	0.514	0.5059
Mg2790	279.079 {1	Y_3710	ppm	4.701	0.0026	0.0552	4.703	4.7
Mn2576	257.610 {1	Y_3600	ppm	0.5972	0.0002	0.0395	0.5971	0.5974
Mn2576-2	257.610 {1	Y_3710	ppm	0.5979	0.0033	0.5505	0.5955	0.6002
Mo2020	202.030 {4	Y_2243	ppm	0.5727	0.0095	1.664	0.5794	0.5659
Na5895	589.592 {	Y_3710	ppm	12.47	0.0718	0.5754	12.52	12.42
Na8183	818.326 {	Y_3710	ppm	12.72	0.2513	1.976	12.54	12.89
Ni2316	231.604 {4	In2306	ppm	0.4383	0.0085	1.944	0.4444	0.4323
P_1782	178.284 {4	In2306	ppm	0.4857	0.0107	2.205	0.4933	0.4781
Pb2203	220.353 {4	In2306	ppm	0.4938	0.0091	1.849	0.5002	0.4873
S_1820	182.034 {4	Y_2243	ppm	-181.5	1.206	0.6644	-182.3	-180.6
Sb2068	206.833 {4	Y_2243	ppm	0.5114	0.0081	1.579	0.5171	0.5057
Se1960	196.090 {4	Y_2243	ppm	0.5494	0.0096	1.741	0.5562	0.5427
Si2516	251.611 {1	Y_3710	ppm	0.85	0.0032	0.3735	0.8478	0.8522
Sn1899	189.989 {4	In2306	ppm	0.5139	0.0088	1.709	0.5201	0.5077
Sr4215	421.552 {	Y_3710	ppm	0.2657	0.0008	0.2928	0.2662	0.2651
Ti3349	334.904 {1	Y_3600	ppm	0.4713	0.0042	0.8852	0.4683	0.4742
Tl1908	190.856 {4	In2306	ppm	0.4564	0.0141	3.08	0.4663	0.4465
V_2924	292.402 {1	Y_3600	ppm	0.4685	0.0021	0.4438	0.4671	0.47
Zn2062	206.200 {4	In2306	ppm	0.4626	0.0079	1.704	0.4682	0.457

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1076.1	6.7953	0.63149	1080.9	1071.3
In2306	230.606 {4	Cts/S	18540	272.61	1.4704	18348	18733
Y_2243	224.306 {4	Cts/S	21448	263.94	1.2306	21262	21635
Y_3600	360.073 {	Cts/S	200600	136.69	0.06814	200700	200500
Y_3710	371.030 {	Cts/S	61339	325.29	0.53031	61569	61109

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:56:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.006	0.0002	2.568	0.0059	0.0061
Al3082	308.215 {1	In2306	ppm	0.0836	0.0281	33.63	0.0637	0.1035
As1890	189.042 {4	Y_2243	ppm	0.0106	0.0003	2.561	0.0104	0.0108
B_2496	249.678 {1	Y_3710	ppm	0.0819	0.0017	2.069	0.0807	0.0831
Ba4554	455.403 {	Y_3710	ppm	0.01	0	0.1048	0.01	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0049	0	0.0489	0.0049	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1274	0.0104	8.164	0.1347	0.12
Ca3181	318.128 {1	In2306	ppm	0.1177	0.0041	3.468	0.1148	0.1206
Cd2288	228.802 {4	Y_2243	ppm	0.0058	0.0009	15.14	0.0052	0.0064
Co2286	228.616 {4	In2306	ppm	0.0098	0.0009	9.213	0.0092	0.0104
Cr2677	267.716 {1	Y_3600	ppm	0.0102	0.0003	3.052	0.0104	0.01
Cu3247	324.754 {1	Y_3600	ppm	0.0177	0.0001	0.7019	0.0178	0.0176
Fe2404	240.488 {1	In2306	ppm	0.1027	0.001	0.9998	0.1034	0.102
K_7664	766.490 {	Y_3710	ppm	0.7787	0.0284	3.641	0.7988	0.7587
K_7698	769.896 {	Y_3710	ppm	0.8491	0.0213	2.512	0.8642	0.834
Li6707	670.784 {	Y_3710	ppm	0.01	0.0004	4.104	0.0103	0.0097
Mg2790	279.079 {1	Y_3710	ppm	0.0847	0.0008	0.8981	0.0842	0.0852
Mn2576	257.610 {1	Y_3600	ppm	0.0122	0.0004	3.3	0.0124	0.0119
Mn2576-2	257.610 {1	Y_3710	ppm	0.0128	0.0002	1.499	0.0126	0.0129
Mo2020	202.030 {4	Y_2243	ppm	0.0144	0.002	14.09	0.013	0.0159
Na5895	589.592 {	Y_3710	ppm	0.6409	0.0025	0.3834	0.6427	0.6392
Na8183	818.326 {	Y_3710	ppm	0.4557	0.0112	2.457	0.4478	0.4637
Ni2316	231.604 {4	In2306	ppm	0.0096	0.0007	7.186	0.0091	0.0101
P_1782	178.284 {4	In2306	ppm	0.0072	0.0009	12.3	0.0078	0.0066
Pb2203	220.353 {4	In2306	ppm	0.0114	0.0011	9.342	0.0106	0.0121
S_1820	182.034 {4	Y_2243	ppm	0.0965	0.3077	318.8	0.3141	-0.1211
Sb2068	206.833 {4	Y_2243	ppm	0.0131	0.0022	17.17	0.0115	0.0147
Se1960	196.090 {4	Y_2243	ppm	0.0131	0.0005	3.889	0.0135	0.0128
Si2516	251.611 {1	Y_3710	ppm	0.0049	0.0065	131.6	0.0096	0.0003
Sn1899	189.989 {4	In2306	ppm	0.0111	0.0013	11.8	0.0102	0.012
Sr4215	421.552 {	Y_3710	ppm	0.0054	0.0001	0.9503	0.0054	0.0054
Ti3349	334.904 {1	Y_3600	ppm	0.0094	0.0006	5.918	0.0098	0.009
Tl1908	190.856 {4	In2306	ppm	0.2082	0.0132	6.355	0.1988	0.2175
V_2924	292.402 {1	Y_3600	ppm	0.0092	0.0002	2.14	0.0094	0.0091
Zn2062	206.200 {4	In2306	ppm	0.0095	0.0008	7.933	0.0089	0.01

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1092.3	10.961	1.0035	1100.1	1084.6
In2306	230.606 {4	Cts/S	19816	59.498	0.30025	19858	19774
Y_2243	224.306 {4	Cts/S	21981	114.56	0.52119	22062	21900
Y_3600	360.073 {	Cts/S	208680	5202.1	2.4928	205000	212360
Y_3710	371.030 {	Cts/S	61919	771.37	1.2458	62465	61374

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 10:58:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0001	34.35	0.0005	0.0003
Al3082	308.215 {1	In2306	ppm	-0.0044	0.0088	198.2	-0.0106	0.0018
As1890	189.042 {4	Y_2243	ppm	-0.0009	0.0002	25.09	-0.001	-0.0007
B_2496	249.678 {1	Y_3710	ppm	0.0696	0.0004	0.5212	0.0694	0.0699
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0.0001	49.34	-0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	122.2	0	0
Ca3158	315.887 {1	In2306	ppm	0.0007	0.0049	747.4	0.0041	-0.0028
Ca3181	318.128 {1	In2306	ppm	0.0081	0.0027	33.78	0.0062	0.0101
Cd2288	228.802 {4	Y_2243	ppm	0	0	21.5	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	116.2	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	-0.0001	0.0002	314.2	0.0001	-0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.007	0.0009	12.11	0.0076	0.0064
Fe2404	240.488 {1	In2306	ppm	0.0024	0.0042	171.7	0.0054	-0.0005
K_7664	766.490 {	Y_3710	ppm	0.2107	0.0016	0.7693	0.2096	0.2119
K_7698	769.896 {	Y_3710	ppm	0.2386	0.0018	0.7508	0.2399	0.2374
Li6707	670.784 {	Y_3710	ppm	-0.0003	0.0003	101	-0.0005	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	-0.0035	0.006	172.3	-0.0077	0.0008
Mn2576	257.610 {1	Y_3600	ppm	0	0	2.905	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0003	0.0004	107.1	0.0006	0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0.0001	25.49	0.0003	0.0005
Na5895	589.592 {	Y_3710	ppm	0.0361	0.0032	8.936	0.0339	0.0384
Na8183	818.326 {	Y_3710	ppm	-0.1648	0.0731	44.38	-0.2165	-0.1131
Ni2316	231.604 {4	In2306	ppm	0.0003	0.0001	20.45	0.0003	0.0004
P_1782	178.284 {4	In2306	ppm	-0.002	0.0002	11.84	-0.0022	-0.0018
Pb2203	220.353 {4	In2306	ppm	-0.0001	0.0011	798.6	-0.0009	0.0006
S_1820	182.034 {4	Y_2243	ppm	0.2942	0.2338	79.46	0.1289	0.4595
Sb2068	206.833 {4	Y_2243	ppm	-0.0005	0	6.906	-0.0005	-0.0004
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0.0015	253.8	-0.0016	0.0005
Si2516	251.611 {1	Y_3710	ppm	-0.001	0.0023	231.4	0.0006	-0.0026
Sn1899	189.989 {4	In2306	ppm	0	0.0006	2275	-0.0005	0.0004
Sr4215	421.552 {	Y_3710	ppm	0	0	10.14	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0001	180.4	0	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.1294	0.009	6.971	0.123	0.1357
V_2924	292.402 {1	Y_3600	ppm	-0.0003	0.0001	32.65	-0.0004	-0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0003	0.0001	32.11	-0.0003	-0.0002

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1070.2	4.9103	0.45883	1066.7	1073.6
In2306	230.606 {4	Cts/S	19760	191.04	0.96678	19625	19895
Y_2243	224.306 {4	Cts/S	21876	184.29	0.84242	21746	22007
Y_3600	360.073 {	Cts/S	196880	10426	5.2955	204250	189500
Y_3710	371.030 {	Cts/S	60729	181.19	0.29836	60857	60601

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=mb 600-87946/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:01:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0012	0	2.971	0.0012	0.0012
Al3082	308.215 {1	In2306	ppm	0.0037	0.0087	231.7	0.0099	-0.0024
As1890	189.042 {4	Y_2243	ppm	-0.001	0.0008	77.59	-0.0015	-0.0005
B_2496	249.678 {1	Y_3710	ppm	0.0694	0.0057	8.211	0.0654	0.0735
Ba4554	455.403 {	Y_3710	ppm	0.001	0	0.7283	0.001	0.0009
Be3130	313.042 {1	Y_3710	ppm	0	0	71.35	0	0
Ca3158	315.887 {1	In2306	ppm	0.7199	0.0058	0.8049	0.724	0.7158
Ca3181	318.128 {1	In2306	ppm	0.614	0.017	2.776	0.6019	0.626
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	14.99	0.0003	0.0002
Co2286	228.616 {4	In2306	ppm	0.0001	0	26.44	0.0002	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0007	0.0001	19.86	0.0008	0.0006
Cu3247	324.754 {1	Y_3600	ppm	0.0078	0.0002	3.16	0.008	0.0076
Fe2404	240.488 {1	In2306	ppm	0.0222	0.0002	1.024	0.0221	0.0224
K_7664	766.490 {	Y_3710	ppm	0.3111	0.0011	0.3567	0.3119	0.3104
K_7698	769.896 {	Y_3710	ppm	0.178	0.0109	6.128	0.1702	0.1857
Li6707	670.784 {	Y_3710	ppm	-0.0007	0.0002	23.89	-0.0009	-0.0006
Mg2790	279.079 {1	Y_3710	ppm	0.0227	0.0044	19.48	0.0258	0.0196
Mn2576	257.610 {1	Y_3600	ppm	0.001	0.0001	6.538	0.001	0.0009
Mn2576-2	257.610 {1	Y_3710	ppm	0.001	0.0002	22.25	0.0009	0.0012
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0	9.94	0.0004	0.0004
Na5895	589.592 {	Y_3710	ppm	0.2795	0.0067	2.404	0.2842	0.2747
Na8183	818.326 {	Y_3710	ppm	0.1624	0.1948	119.9	0.3002	0.0247
Ni2316	231.604 {4	In2306	ppm	0.0013	0	1.468	0.0013	0.0013
P_1782	178.284 {4	In2306	ppm	0.0456	0.0004	0.8682	0.0459	0.0453
Pb2203	220.353 {4	In2306	ppm	0.0023	0.0002	7.224	0.0022	0.0024
S_1820	182.034 {4	Y_2243	ppm	-6.013	0.1506	2.505	-5.906	-6.119
Sb2068	206.833 {4	Y_2243	ppm	-0.0014	0.0009	66.81	-0.0007	-0.002
Se1960	196.090 {4	Y_2243	ppm	-0.0004	0.0007	186.9	-0.0009	0.0001
Si2516	251.611 {1	Y_3710	ppm	0.0076	0.0025	32.39	0.0094	0.0059
Sn1899	189.989 {4	In2306	ppm	0.0291	0.0002	0.8544	0.0293	0.029
Sr4215	421.552 {	Y_3710	ppm	0.001	0	0.1341	0.001	0.001
Ti3349	334.904 {1	Y_3600	ppm	0.0001	0	73	0.0001	0
Tl1908	190.856 {4	In2306	ppm	0.1091	0.0131	12.05	0.0998	0.1184
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0001	98.87	0	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.0535	0	0.032	0.0535	0.0535

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1082.1	3.5041	0.32383	1079.6	1084.6
In2306	230.606 {4	Cts/S	19668	32.113	0.16327	19691	19645
Y_2243	224.306 {4	Cts/S	21729	24.131	0.11106	21746	21711
Y_3600	360.073 {	Cts/S	205440	310.23	0.15101	205220	205660

Y_3710	371.030 {	Cts/S	61914	227.95	0.36817	62075	61753	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87946/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:03:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5112	0.0264	5.164	0.4926	0.5299
Al3082	308.215 {1	In2306	ppm	88.84	0.2238	0.2519	89	88.69
As1890	189.042 {4	Y_2243	ppm	1.455	0.0017	0.115	1.454	1.457
B_2496	249.678 {1	Y_3710	ppm	0.8866	0.0028	0.3117	0.8847	0.8886
Ba4554	455.403 {	Y_3710	ppm	2.558	0.0473	1.85	2.524	2.591
Be3130	313.042 {1	Y_3710	ppm	1.499	0.0017	0.1101	1.5	1.498
Ca3158	315.887 {1	In2306	ppm	118	0.3178	0.2692	117.8	118.3
Ca3181	318.128 {1	In2306	ppm	95.41	0.0128	0.0135	95.4	95.42
Cd2288	228.802 {4	Y_2243	ppm	0.7259	0.0026	0.3533	0.7241	0.7277
Co2286	228.616 {4	In2306	ppm	1.415	0.0014	0.1013	1.414	1.416
Cr2677	267.716 {1	Y_3600	ppm	1.035	0.0584	5.637	0.994	1.077
Cu3247	324.754 {1	Y_3600	ppm	1.201	0.0671	5.586	1.154	1.249
Fe2404	240.488 {1	In2306	ppm	178.1	0.0485	0.0273	178.1	178
K_7664	766.490 {	Y_3710	ppm	44.88	0.0222	0.0496	44.9	44.87
K_7698	769.896 {	Y_3710	ppm	46.84	0.0191	0.0407	46.83	46.86
Li6707	670.784 {	Y_3710	ppm	0.089	0.0002	0.2182	0.0889	0.0892
Mg2790	279.079 {1	Y_3710	ppm	38.06	0.0301	0.0792	38.04	38.08
Mn2576	257.610 {1	Y_3600	ppm	6.423	0.3189	4.965	6.198	6.649
Mn2576-2	257.610 {1	Y_3710	ppm	6.216	0.0419	0.6734	6.186	6.246
Mo2020	202.030 {4	Y_2243	ppm	1.005	0.0021	0.2065	1.004	1.007
Na5895	589.592 {	Y_3710	ppm	6.149	0.0107	0.1734	6.156	6.141
Na8183	818.326 {	Y_3710	ppm	6.792	0.0957	1.409	6.86	6.725
Ni2316	231.604 {4	In2306	ppm	1.22	0.0022	0.1797	1.219	1.222
P_1782	178.284 {4	In2306	ppm	8.601	0.0069	0.0797	8.596	8.606
Pb2203	220.353 {4	In2306	ppm	1.465	0.0006	0.0379	1.466	1.465
S_1820	182.034 {4	Y_2243	ppm	-483.4	1.723	0.3564	-482.2	-484.6
Sb2068	206.833 {4	Y_2243	ppm	0.7989	0.0024	0.3011	0.8006	0.7972
Se1960	196.090 {4	Y_2243	ppm	2.172	0.0096	0.4403	2.166	2.179
Si2516	251.611 {1	Y_3710	ppm	6.647	0.0464	0.6986	6.68	6.614
Sn1899	189.989 {4	In2306	ppm	1.69	0.0026	0.1551	1.692	1.688
Sr4215	421.552 {	Y_3710	ppm	2.579	0.0139	0.5382	2.569	2.589
Ti3349	334.904 {1	Y_3600	ppm	3.682	0.21	5.703	3.533	3.83
Tl1908	190.856 {4	In2306	ppm	0.8876	0.0707	7.961	0.9376	0.8376
V_2924	292.402 {1	Y_3600	ppm	0.5942	0.0344	5.792	0.5699	0.6186
Zn2062	206.200 {4	In2306	ppm	2.159	0.0007	0.0314	2.159	2.158

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1021.6	4.4454	0.43515	1024.7	1018.4
In2306	230.606 {4	Cts/S	16402	81.284	0.49558	16459	16344
Y_2243	224.306 {4	Cts/S	21345	129.71	0.60772	21436	21253
Y_3600	360.073 {	Cts/S	192170	8273.6	4.3054	198020	186320

Y_3710	371.030 {	Cts/S	63247	334.82	0.52939	63484	63010	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-4-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:05:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0039	0.0001	2.448	-0.004	-0.0039
Al3082	308.215 {1	In2306	ppm	124.3	4.39	3.532	127.4	121.2
As1890	189.042 {4	Y_2243	ppm	0.0362	0.0029	7.923	0.0342	0.0382
B_2496	249.678 {1	Y_3710	ppm	0.0816	0.0022	2.683	0.0832	0.0801
Ba4554	455.403 {	Y_3710	ppm	1.324	0.0334	2.526	1.348	1.3
Be3130	313.042 {1	Y_3710	ppm	0.0116	0.0002	1.904	0.0118	0.0115
Ca3158	315.887 {1	In2306	ppm	69.44	2.11	3.039	70.93	67.95
Ca3181	318.128 {1	In2306	ppm	56.17	1.843	3.281	57.47	54.87
Cd2288	228.802 {4	Y_2243	ppm	0.0011	0.0009	80.68	0.0005	0.0017
Co2286	228.616 {4	In2306	ppm	0.0419	0.0025	5.86	0.0402	0.0436
Cr2677	267.716 {1	Y_3600	ppm	0.1065	0.0012	1.172	0.1074	0.1056
Cu3247	324.754 {1	Y_3600	ppm	0.0979	0.0006	0.5775	0.0975	0.0983
Fe2404	240.488 {1	In2306	ppm	98.63	3.272	3.317	100.9	96.31
K_7664	766.490 {	Y_3710	ppm	4.937	0.1387	2.809	5.035	4.839
K_7698	769.896 {	Y_3710	ppm	4.952	0.1668	3.368	5.07	4.834
Li6707	670.784 {	Y_3710	ppm	0.06	0.0018	3.044	0.0613	0.0587
Mg2790	279.079 {1	Y_3710	ppm	19.65	0.3871	1.969	19.93	19.38
Mn2576	257.610 {1	Y_3600	ppm	2.464	0.0093	0.3762	2.471	2.458
Mn2576-2	257.610 {1	Y_3710	ppm	2.37	0.0513	2.164	2.406	2.334
Mo2020	202.030 {4	Y_2243	ppm	0.0069	0.0022	32.28	0.0053	0.0084
Na5895	589.592 {	Y_3710	ppm	2.642	0.0812	3.073	2.7	2.585
Na8183	818.326 {	Y_3710	ppm	2.981	0.0012	0.041	2.982	2.98
Ni2316	231.604 {4	In2306	ppm	0.0683	0.002	2.927	0.0669	0.0697
P_1782	178.284 {4	In2306	ppm	0.6058	0.0147	2.43	0.5954	0.6162
Pb2203	220.353 {4	In2306	ppm	0.2014	0.0043	2.16	0.1983	0.2044
S_1820	182.034 {4	Y_2243	ppm	-96.13	0.6647	0.6914	-95.66	-96.6
Sb2068	206.833 {4	Y_2243	ppm	-0.0018	0.001	55.22	-0.0025	-0.0011
Se1960	196.090 {4	Y_2243	ppm	0.003	0.0031	103.9	0.0008	0.0051
Si2516	251.611 {1	Y_3710	ppm	8.146	0.2212	2.715	8.302	7.989
Sn1899	189.989 {4	In2306	ppm	0.0392	0.0039	10.01	0.0365	0.042
Sr4215	421.552 {	Y_3710	ppm	0.4308	0.0108	2.506	0.4384	0.4232
Ti3349	334.904 {1	Y_3600	ppm	0.1487	0.0002	0.1121	0.1488	0.1486
Tl1908	190.856 {4	In2306	ppm	0.2604	0.0319	12.27	0.2378	0.283
V_2924	292.402 {1	Y_3600	ppm	0.2797	0.0004	0.1344	0.28	0.2795
Zn2062	206.200 {4	In2306	ppm	0.1791	0.0034	1.905	0.1767	0.1815

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1064.6	28.859	2.7108	1044.2	1085
In2306	230.606 {4	Cts/S	16932	84.494	0.49903	16991	16872
Y_2243	224.306 {4	Cts/S	22758	108.48	0.47667	22835	22681
Y_3600	360.073 {	Cts/S	211210	805.19	0.38122	210650	211780

Y_3710	371.030 {	Cts/S	68331	1080.2	1.5808	67567	69095	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-6-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:07:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0032	0.0001	1.662	-0.0032	-0.0032
Al3082	308.215 {1	In2306	ppm	223	2.926	1.312	221	225.1
As1890	189.042 {4	Y_2243	ppm	0.0479	0.0012	2.503	0.047	0.0487
B_2496	249.678 {1	Y_3710	ppm	0.0763	0.0017	2.254	0.0751	0.0775
Ba4554	455.403 {	Y_3710	ppm	2.02	0.0542	2.685	1.981	2.058
Be3130	313.042 {1	Y_3710	ppm	0.0151	0.0001	0.5373	0.015	0.0152
Ca3158	315.887 {1	In2306	ppm	179.4	3.364	1.875	177.1	181.8
Ca3181	318.128 {1	In2306	ppm	145	1.708	1.178	143.8	146.2
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0	7.302	0.0004	0.0005
Co2286	228.616 {4	In2306	ppm	0.0551	0.0012	2.103	0.0543	0.056
Cr2677	267.716 {1	Y_3600	ppm	0.1738	0.0012	0.696	0.173	0.1747
Cu3247	324.754 {1	Y_3600	ppm	0.1076	0.0014	1.271	0.1067	0.1086
Fe2404	240.488 {1	In2306	ppm	161.6	2.109	1.306	160.1	163.1
K_7664	766.490 {	Y_3710	ppm	6.708	0.0101	0.1506	6.701	6.715
K_7698	769.896 {	Y_3710	ppm	6.896	0.0524	0.7596	6.859	6.933
Li6707	670.784 {	Y_3710	ppm	0.0763	0.001	1.331	0.0756	0.077
Mg2790	279.079 {1	Y_3710	ppm	27.22	0.0958	0.3519	27.15	27.29
Mn2576	257.610 {1	Y_3600	ppm	0.5257	0.0038	0.7138	0.5231	0.5284
Mn2576-2	257.610 {1	Y_3710	ppm	0.5182	0.0068	1.313	0.5134	0.523
Mo2020	202.030 {4	Y_2243	ppm	0.0029	0.0002	5.447	0.0028	0.003
Na5895	589.592 {	Y_3710	ppm	2.654	0.0113	0.4246	2.646	2.662
Na8183	818.326 {	Y_3710	ppm	3.117	0.1925	6.176	3.253	2.981
Ni2316	231.604 {4	In2306	ppm	0.1046	0.0014	1.378	0.1036	0.1056
P_1782	178.284 {4	In2306	ppm	0.4003	0.0034	0.8576	0.3979	0.4027
Pb2203	220.353 {4	In2306	ppm	0.2122	0.0029	1.381	0.2101	0.2143
S_1820	182.034 {4	Y_2243	ppm	-109.5	1.084	0.9897	-108.8	-110.3
Sb2068	206.833 {4	Y_2243	ppm	-0.0068	0.0006	9.177	-0.0073	-0.0064
Se1960	196.090 {4	Y_2243	ppm	0.0034	0.0007	21.89	0.0029	0.0039
Si2516	251.611 {1	Y_3710	ppm	6.85	0.0114	0.1664	6.858	6.842
Sn1899	189.989 {4	In2306	ppm	0.0411	0.0014	3.497	0.0401	0.0422
Sr4215	421.552 {	Y_3710	ppm	0.7582	0.0047	0.6155	0.7549	0.7615
Ti3349	334.904 {1	Y_3600	ppm	0.1179	0.0001	0.0838	0.1179	0.118
Tl1908	190.856 {4	In2306	ppm	0.1375	0.0201	14.6	0.1233	0.1517
V_2924	292.402 {1	Y_3600	ppm	0.3278	0.0016	0.4736	0.3267	0.3289
Zn2062	206.200 {4	In2306	ppm	0.2678	0.0028	1.041	0.2658	0.2697

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1021.6	12.998	1.2723	1030.8	1012.4
In2306	230.606 {4	Cts/S	15907	157.66	0.99116	16019	15796
Y_2243	224.306 {4	Cts/S	22156	180.15	0.81312	22283	22028
Y_3600	360.073 {	Cts/S	205620	1353.1	0.65803	206580	204660

Y_3710	371.030 { ⁹	Cts/S	66593	272.07	0.40856	66786	66401	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-8-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:10:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0025	0	0.2296	-0.0025	-0.0025
Al3082	308.215 {1	In2306	ppm	244.4	0.0004	0.0002	244.4	244.4
As1890	189.042 {4	Y_2243	ppm	0.0393	0.002	5.05	0.0379	0.0407
B_2496	249.678 {1	Y_3710	ppm	0.0876	0.0006	0.6644	0.0872	0.088
Ba4554	455.403 { ⁷	Y_3710	ppm	0.5787	0.0013	0.23	0.5778	0.5797
Be3130	313.042 {1	Y_3710	ppm	0.0169	0	0.0804	0.0169	0.0169
Ca3158	315.887 {1	In2306	ppm	78.61	0.2206	0.2806	78.76	78.45
Ca3181	318.128 {1	In2306	ppm	63.37	0.1196	0.1887	63.46	63.29
Cd2288	228.802 {4	Y_2243	ppm	0.0008	0.0002	25.43	0.001	0.0007
Co2286	228.616 {4	In2306	ppm	0.0618	0.0003	0.4205	0.062	0.0616
Cr2677	267.716 {1	Y_3600	ppm	0.1838	0.0115	6.258	0.1756	0.1919
Cu3247	324.754 {1	Y_3600	ppm	0.1261	0.0073	5.818	0.1209	0.1313
Fe2404	240.488 {1	In2306	ppm	241.8	0.5833	0.2412	242.3	241.4
K_7664	766.490 { ⁴	Y_3710	ppm	18	0.0418	0.2322	17.97	18.03
K_7698	769.896 { ⁴	Y_3710	ppm	18.64	0.126	0.676	18.56	18.73
Li6707	670.784 { ⁸	Y_3710	ppm	0.2042	0.0005	0.2672	0.2038	0.2046
Mg2790	279.079 {1	Y_3710	ppm	70.29	0.4858	0.6911	70.63	69.94
Mn2576	257.610 {1	Y_3600	ppm	0.8653	0.0535	6.185	0.8275	0.9032
Mn2576-2	257.610 {1	Y_3710	ppm	0.8221	0.0022	0.2653	0.8236	0.8205
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	54.96	0.0002	0.0001
Na5895	589.592 { ⁸	Y_3710	ppm	16.69	0.0403	0.2413	16.66	16.72
Na8183	818.326 { ⁴	Y_3710	ppm	17.62	0.0027	0.0151	17.62	17.62
Ni2316	231.604 {4	In2306	ppm	0.2058	0.001	0.4816	0.2065	0.2051
P_1782	178.284 {4	In2306	ppm	0.6071	0.0016	0.2717	0.6083	0.606
Pb2203	220.353 {4	In2306	ppm	0.1752	0.0007	0.4021	0.1747	0.1757
S_1820	182.034 {4	Y_2243	ppm	-64.47	0.6104	0.9467	-64.91	-64.04
Sb2068	206.833 {4	Y_2243	ppm	-0.0071	0.0008	10.97	-0.0076	-0.0065
Se1960	196.090 {4	Y_2243	ppm	-0.0026	0.0007	28.29	-0.0031	-0.0021
Si2516	251.611 {1	Y_3710	ppm	6.381	0.0465	0.728	6.414	6.348
Sn1899	189.989 {4	In2306	ppm	0.0408	0.0003	0.6543	0.041	0.0406
Sr4215	421.552 { ⁸	Y_3710	ppm	0.7412	0.0005	0.071	0.7416	0.7408
Ti3349	334.904 {1	Y_3600	ppm	0.2155	0.0136	6.326	0.2058	0.2251
Tl1908	190.856 {4	In2306	ppm	0.0782	0.0116	14.84	0.07	0.0864
V_2924	292.402 {1	Y_3600	ppm	0.334	0.0224	6.702	0.3181	0.3498
Zn2062	206.200 {4	In2306	ppm	0.4168	0.0009	0.2089	0.4174	0.4162

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1012.4	9.824	0.97037	1005.5	1019.4
In2306	230.606 {4	Cts/S	16077	41.622	0.2589	16047	16106
Y_2243	224.306 {4	Cts/S	22274	49.04	0.22017	22240	22309
Y_3600	360.073 { ⁹	Cts/S	197940	10098	5.1013	205080	190800

Y_3710	371.030 {	Cts/S	65838	732.05	1.1119	65320	66355	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-8-c du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:12:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0042	0.0007	17.54	-0.0037	-0.0047
Al3082	308.215 {1	In2306	ppm	236	3.233	1.37	238.3	233.7
As1890	189.042 {4	Y_2243	ppm	0.0469	0.0028	5.945	0.045	0.0489
B_2496	249.678 {1	Y_3710	ppm	0.083	0.0033	4.023	0.0806	0.0853
Ba4554	455.403 {	Y_3710	ppm	0.6827	0.0111	1.626	0.6906	0.6749
Be3130	313.042 {1	Y_3710	ppm	0.0179	0.0001	0.8219	0.018	0.0178
Ca3158	315.887 {1	In2306	ppm	79.08	0.9451	1.195	79.75	78.41
Ca3181	318.128 {1	In2306	ppm	63.5	0.7274	1.146	64.01	62.98
Cd2288	228.802 {4	Y_2243	ppm	0.0018	0	2.667	0.0018	0.0018
Co2286	228.616 {4	In2306	ppm	0.133	0.0041	3.074	0.1301	0.1359
Cr2677	267.716 {1	Y_3600	ppm	0.1741	0.0105	6.042	0.1667	0.1816
Cu3247	324.754 {1	Y_3600	ppm	0.1321	0.007	5.313	0.1271	0.1371
Fe2404	240.488 {1	In2306	ppm	258.7	3.677	1.421	261.3	256.1
K_7664	766.490 {	Y_3710	ppm	16.67	0.1751	1.05	16.8	16.55
K_7698	769.896 {	Y_3710	ppm	17.38	0.2374	1.366	17.55	17.22
Li6707	670.784 {	Y_3710	ppm	0.2027	0.0033	1.636	0.2051	0.2004
Mg2790	279.079 {1	Y_3710	ppm	71.98	0.8404	1.168	72.57	71.38
Mn2576	257.610 {1	Y_3600	ppm	2.807	0.172	6.127	2.685	2.928
Mn2576-2	257.610 {1	Y_3710	ppm	2.648	0.0322	1.217	2.671	2.626
Mo2020	202.030 {4	Y_2243	ppm	0	0.0003	811.1	0.0003	-0.0002
Na5895	589.592 {	Y_3710	ppm	17.17	0.2429	1.414	17.34	17
Na8183	818.326 {	Y_3710	ppm	18.04	0.2132	1.182	18.19	17.89
Ni2316	231.604 {4	In2306	ppm	0.2326	0.0072	3.082	0.2275	0.2377
P_1782	178.284 {4	In2306	ppm	0.6695	0.0213	3.182	0.6544	0.6845
Pb2203	220.353 {4	In2306	ppm	0.192	0.0093	4.861	0.1854	0.1986
S_1820	182.034 {4	Y_2243	ppm	-65.06	1.27	1.952	-64.16	-65.95
Sb2068	206.833 {4	Y_2243	ppm	-0.0099	0.0029	29.08	-0.0079	-0.0119
Se1960	196.090 {4	Y_2243	ppm	0	0.0022	5085	-0.0015	0.0016
Si2516	251.611 {1	Y_3710	ppm	6.073	0.077	1.268	6.128	6.019
Sn1899	189.989 {4	In2306	ppm	0.0383	0.0013	3.388	0.0373	0.0392
Sr4215	421.552 {	Y_3710	ppm	0.7655	0.0106	1.389	0.773	0.758
Ti3349	334.904 {1	Y_3600	ppm	0.2094	0.0125	5.967	0.2006	0.2182
Tl1908	190.856 {4	In2306	ppm	0.0441	0.0082	18.62	0.0383	0.0499
V_2924	292.402 {1	Y_3600	ppm	0.339	0.0188	5.559	0.3257	0.3523
Zn2062	206.200 {4	In2306	ppm	0.4017	0.0121	3.003	0.3932	0.4102

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1024.6	8.9362	0.87219	1018.3	1030.9
In2306	230.606 {4	Cts/S	16218	391.74	2.4154	16495	15941
Y_2243	224.306 {4	Cts/S	22672	454.83	2.0061	22994	22351
Y_3600	360.073 {	Cts/S	200350	9368	4.6759	206970	193720

Y_3710	371.030 {	Cts/S	66719	641.9	0.9621	66265	67172	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-8-d ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:14:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5286	0.0025	0.4682	0.5269	0.5304
Al3082	308.215 {1	In2306	ppm	308.9	22.01	7.124	293.3	324.4
As1890	189.042 {4	Y_2243	ppm	0.9813	0.0001	0.013	0.9813	0.9812
B_2496	249.678 {1	Y_3710	ppm	0.6497	0.034	5.235	0.6256	0.6737
Ba4554	455.403 {	Y_3710	ppm	1.604	0.1004	6.262	1.533	1.675
Be3130	313.042 {1	Y_3710	ppm	0.4986	0.0292	5.853	0.478	0.5193
Ca3158	315.887 {1	In2306	ppm	89.17	6.146	6.892	84.83	93.52
Ca3181	318.128 {1	In2306	ppm	71.6	4.788	6.686	68.22	74.99
Cd2288	228.802 {4	Y_2243	ppm	0.4808	0.0005	0.1097	0.4804	0.4812
Co2286	228.616 {4	In2306	ppm	1.064	0.0005	0.0426	1.064	1.065
Cr2677	267.716 {1	Y_3600	ppm	1.13	0.0045	0.3943	1.133	1.127
Cu3247	324.754 {1	Y_3600	ppm	1.149	0.0106	0.9241	1.141	1.156
Fe2404	240.488 {1	In2306	ppm	286.6	19.29	6.729	273	300.3
K_7664	766.490 {	Y_3710	ppm	31.48	1.975	6.275	30.08	32.87
K_7698	769.896 {	Y_3710	ppm	32.62	2.181	6.686	31.08	34.16
Li6707	670.784 {	Y_3710	ppm	0.7427	0.0438	5.891	0.7117	0.7736
Mg2790	279.079 {1	Y_3710	ppm	87.19	5.023	5.761	83.64	90.75
Mn2576	257.610 {1	Y_3600	ppm	2.249	0.0056	0.2483	2.252	2.245
Mn2576-2	257.610 {1	Y_3710	ppm	2.306	0.1402	6.081	2.207	2.405
Mo2020	202.030 {4	Y_2243	ppm	0.9008	0	0.0051	0.9008	0.9008
Na5895	589.592 {	Y_3710	ppm	27.01	1.688	6.252	25.81	28.2
Na8183	818.326 {	Y_3710	ppm	28.6	1.623	5.674	27.45	29.75
Ni2316	231.604 {4	In2306	ppm	1.132	0.0009	0.0807	1.132	1.133
P_1782	178.284 {4	In2306	ppm	0.8275	0.0002	0.0209	0.8276	0.8274
Pb2203	220.353 {4	In2306	ppm	1.177	0.0039	0.3279	1.174	1.179
S_1820	182.034 {4	Y_2243	ppm	-61.53	0.3221	0.5235	-61.3	-61.75
Sb2068	206.833 {4	Y_2243	ppm	0.423	0.0008	0.1776	0.4236	0.4225
Se1960	196.090 {4	Y_2243	ppm	0.9092	0.0007	0.0719	0.9097	0.9088
Si2516	251.611 {1	Y_3710	ppm	7.164	0.397	5.542	6.883	7.444
Sn1899	189.989 {4	In2306	ppm	1.031	0.0013	0.1269	1.032	1.03
Sr4215	421.552 {	Y_3710	ppm	1.295	0.0822	6.345	1.237	1.353
Ti3349	334.904 {1	Y_3600	ppm	0.6403	0.0019	0.3027	0.6417	0.6389
Tl1908	190.856 {4	In2306	ppm	0.5144	0.048	9.34	0.5484	0.4805
V_2924	292.402 {1	Y_3600	ppm	1.156	0.0003	0.0233	1.156	1.155
Zn2062	206.200 {4	In2306	ppm	1.458	0.0033	0.2287	1.46	1.455

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	975.35	50.001	5.1265	1010.7	939.99
In2306	230.606 {4	Cts/S	15646	42.024	0.26859	15675	15616
Y_2243	224.306 {4	Cts/S	21960	71.261	0.32451	22010	21909
Y_3600	360.073 {	Cts/S	201170	299.89	0.14907	201390	200960

Y_3710	371.030 {	Cts/S	63439	2704.9	4.2638	65351	61526	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-8-e msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:16:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5322	0.0057	1.077	0.5281	0.5362
Al3082	308.215 {1	In2306	ppm	294.2	1.615	0.5488	295.4	293.1
As1890	189.042 {4	Y_2243	ppm	0.9766	0.0172	1.763	0.9644	0.9888
B_2496	249.678 {1	Y_3710	ppm	0.6578	0.0081	1.236	0.6636	0.6521
Ba4554	455.403 {	Y_3710	ppm	1.559	0.019	1.218	1.573	1.546
Be3130	313.042 {1	Y_3710	ppm	0.4826	0.0032	0.6561	0.4849	0.4804
Ca3158	315.887 {1	In2306	ppm	89.33	0.7882	0.8824	89.89	88.77
Ca3181	318.128 {1	In2306	ppm	71.34	0.1704	0.2389	71.47	71.22
Cd2288	228.802 {4	Y_2243	ppm	0.4715	0.0063	1.341	0.467	0.476
Co2286	228.616 {4	In2306	ppm	1.051	0.0162	1.538	1.04	1.062
Cr2677	267.716 {1	Y_3600	ppm	1.128	0.0099	0.882	1.121	1.135
Cu3247	324.754 {1	Y_3600	ppm	1.153	0.0073	0.6311	1.148	1.158
Fe2404	240.488 {1	In2306	ppm	280.4	0.9576	0.3416	281	279.7
K_7664	766.490 {	Y_3710	ppm	29.8	0.3756	1.26	30.07	29.54
K_7698	769.896 {	Y_3710	ppm	31.11	0.3513	1.129	31.36	30.86
Li6707	670.784 {	Y_3710	ppm	0.7208	0.0096	1.337	0.7276	0.714
Mg2790	279.079 {1	Y_3710	ppm	86.25	0.4781	0.5543	86.59	85.91
Mn2576	257.610 {1	Y_3600	ppm	2.397	0.0257	1.073	2.379	2.415
Mn2576-2	257.610 {1	Y_3710	ppm	2.387	0.0331	1.386	2.41	2.363
Mo2020	202.030 {4	Y_2243	ppm	0.9028	0.012	1.331	0.8943	0.9113
Na5895	589.592 {	Y_3710	ppm	26.65	0.339	1.272	26.89	26.41
Na8183	818.326 {	Y_3710	ppm	28.33	0.1054	0.3721	28.41	28.26
Ni2316	231.604 {4	In2306	ppm	1.117	0.0166	1.491	1.105	1.129
P_1782	178.284 {4	In2306	ppm	0.8955	0.0052	0.5788	0.8919	0.8992
Pb2203	220.353 {4	In2306	ppm	1.154	0.017	1.474	1.142	1.166
S_1820	182.034 {4	Y_2243	ppm	-61.05	0.7966	1.305	-60.49	-61.61
Sb2068	206.833 {4	Y_2243	ppm	0.437	0.0062	1.41	0.4326	0.4413
Se1960	196.090 {4	Y_2243	ppm	0.9031	0.0127	1.404	0.8941	0.912
Si2516	251.611 {1	Y_3710	ppm	7.159	0.0492	0.6872	7.194	7.124
Sn1899	189.989 {4	In2306	ppm	1.019	0.0143	1.407	1.009	1.029
Sr4215	421.552 {	Y_3710	ppm	1.28	0.013	1.014	1.29	1.271
Ti3349	334.904 {1	Y_3600	ppm	0.6839	0.0078	1.134	0.6784	0.6894
Tl1908	190.856 {4	In2306	ppm	0.6638	0.0298	4.492	0.6849	0.6427
V_2924	292.402 {1	Y_3600	ppm	1.173	0.0092	0.7815	1.167	1.18
Zn2062	206.200 {4	In2306	ppm	1.429	0.0206	1.443	1.415	1.444

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	998.22	9.0078	0.90239	991.85	1004.6
In2306	230.606 {4	Cts/S	15764	211.83	1.3438	15913	15614
Y_2243	224.306 {4	Cts/S	22126	266.49	1.2044	22314	21937
Y_3600	360.073 {	Cts/S	199860	1279	0.63998	200760	198950

Y_3710	371.030 {	Cts/S	64827	858.9	1.3249	64219	65434	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-9-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:19:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0031	0.0001	2.859	-0.003	-0.0032
Al3082	308.215 {1	In2306	ppm	200.9	0.3082	0.1534	200.7	201.2
As1890	189.042 {4	Y_2243	ppm	0.017	0.0002	0.9503	0.0169	0.0171
B_2496	249.678 {1	Y_3710	ppm	0.0705	0.0024	3.399	0.0722	0.0688
Ba4554	455.403 {	Y_3710	ppm	1.629	0.0017	0.1033	1.627	1.63
Be3130	313.042 {1	Y_3710	ppm	0.016	0	0.2447	0.016	0.016
Ca3158	315.887 {1	In2306	ppm	61.62	0.2437	0.3955	61.45	61.79
Ca3181	318.128 {1	In2306	ppm	49.69	0.1542	0.3103	49.58	49.8
Cd2288	228.802 {4	Y_2243	ppm	0.0012	0.0004	29.56	0.001	0.0015
Co2286	228.616 {4	In2306	ppm	0.0933	0.0006	0.6403	0.0929	0.0937
Cr2677	267.716 {1	Y_3600	ppm	0.1577	0.0008	0.5054	0.1583	0.1572
Cu3247	324.754 {1	Y_3600	ppm	0.0875	0.0001	0.1093	0.0875	0.0876
Fe2404	240.488 {1	In2306	ppm	140.8	0.5267	0.3741	140.4	141.1
K_7664	766.490 {	Y_3710	ppm	9.458	0.0412	0.4359	9.487	9.429
K_7698	769.896 {	Y_3710	ppm	9.746	0.0033	0.0343	9.744	9.749
Li6707	670.784 {	Y_3710	ppm	0.1156	0.0006	0.5473	0.1152	0.1161
Mg2790	279.079 {1	Y_3710	ppm	43.86	0.0582	0.1326	43.9	43.82
Mn2576	257.610 {1	Y_3600	ppm	3.137	0.0049	0.1562	3.14	3.133
Mn2576-2	257.610 {1	Y_3710	ppm	3.098	0.0077	0.2481	3.103	3.092
Mo2020	202.030 {4	Y_2243	ppm	0.0042	0.0019	46.23	0.0028	0.0055
Na5895	589.592 {	Y_3710	ppm	13.55	0.0305	0.225	13.57	13.53
Na8183	818.326 {	Y_3710	ppm	14.16	0.1332	0.9409	14.25	14.06
Ni2316	231.604 {4	In2306	ppm	0.157	0.0005	0.3052	0.1567	0.1573
P_1782	178.284 {4	In2306	ppm	0.2838	0.0023	0.8152	0.2822	0.2854
Pb2203	220.353 {4	In2306	ppm	0.1886	0	0.0006	0.1886	0.1886
S_1820	182.034 {4	Y_2243	ppm	-123.5	0.4073	0.3298	-123.8	-123.2
Sb2068	206.833 {4	Y_2243	ppm	-0.0019	0.003	153.6	-0.004	0.0002
Se1960	196.090 {4	Y_2243	ppm	-0.0013	0.0005	42.78	-0.0009	-0.0016
Si2516	251.611 {1	Y_3710	ppm	5.791	0.0238	0.4115	5.774	5.808
Sn1899	189.989 {4	In2306	ppm	0.04	0.0023	5.867	0.0384	0.0417
Sr4215	421.552 {	Y_3710	ppm	0.6259	0.0003	0.0457	0.6261	0.6257
Ti3349	334.904 {1	Y_3600	ppm	0.1421	0.0006	0.451	0.1417	0.1426
Tl1908	190.856 {4	In2306	ppm	0.198	0.0244	12.35	0.1807	0.2152
V_2924	292.402 {1	Y_3600	ppm	0.2486	0.0011	0.4386	0.2494	0.2478
Zn2062	206.200 {4	In2306	ppm	0.2876	0.0017	0.5919	0.2864	0.2888

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1029.4	1.2063	0.11719	1028.5	1030.2
In2306	230.606 {4	Cts/S	16620	16.462	0.09905	16608	16632
Y_2243	224.306 {4	Cts/S	23267	22.339	0.09601	23251	23283
Y_3600	360.073 {	Cts/S	211080	524.95	0.2487	210710	211450

Y_3710	371.030 {	Cts/S	67649	45.546	0.06733	67617	67681	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-a-10-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:21:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0066	0.0001	1.895	-0.0066	-0.0067
Al3082	308.215 {1	In2306	ppm	163.7	0.1276	0.0779	163.8	163.6
As1890	189.042 {4	Y_2243	ppm	0.0442	0.0005	1.173	0.0438	0.0446
B_2496	249.678 {1	Y_3710	ppm	0.0683	0.0026	3.816	0.0665	0.0702
Ba4554	455.403 {	Y_3710	ppm	1.875	0.0232	1.238	1.859	1.892
Be3130	313.042 {1	Y_3710	ppm	0.016	0.0001	0.3561	0.016	0.016
Ca3158	315.887 {1	In2306	ppm	70.08	0.0323	0.0461	70.1	70.05
Ca3181	318.128 {1	In2306	ppm	56.19	0.042	0.0747	56.22	56.16
Cd2288	228.802 {4	Y_2243	ppm	0.0011	0	3.216	0.0011	0.001
Co2286	228.616 {4	In2306	ppm	0.2918	0.0057	1.949	0.2958	0.2878
Cr2677	267.716 {1	Y_3600	ppm	0.1368	0.0033	2.397	0.1345	0.1391
Cu3247	324.754 {1	Y_3600	ppm	0.1113	0.0031	2.798	0.1091	0.1135
Fe2404	240.488 {1	In2306	ppm	201.1	0.0725	0.036	201.1	201
K_7664	766.490 {	Y_3710	ppm	6.005	0.0228	0.379	6.021	5.989
K_7698	769.896 {	Y_3710	ppm	6.118	0.0051	0.0835	6.114	6.121
Li6707	670.784 {	Y_3710	ppm	0.0866	0.0006	0.6597	0.087	0.0862
Mg2790	279.079 {1	Y_3710	ppm	33.32	0.0222	0.0666	33.33	33.3
Mn2576	257.610 {1	Y_3600	ppm	36.82	0.6159	1.673	36.39	37.26
Mn2576-2	257.610 {1	Y_3710	ppm	43.96	0.109	0.248	44.04	43.88
Mo2020	202.030 {4	Y_2243	ppm	0.0037	0	1.108	0.0037	0.0036
Na5895	589.592 {	Y_3710	ppm	10.04	0.0469	0.4672	10.07	10
Na8183	818.326 {	Y_3710	ppm	10.83	0.0544	0.5028	10.87	10.79
Ni2316	231.604 {4	In2306	ppm	0.1875	0.0033	1.758	0.1898	0.1852
P_1782	178.284 {4	In2306	ppm	0.2259	0.0047	2.089	0.2292	0.2225
Pb2203	220.353 {4	In2306	ppm	0.3772	0.0054	1.426	0.381	0.3734
S_1820	182.034 {4	Y_2243	ppm	-64.25	0.4314	0.6715	-64.55	-63.94
Sb2068	206.833 {4	Y_2243	ppm	-0.0092	0.0011	11.8	-0.01	-0.0085
Se1960	196.090 {4	Y_2243	ppm	0.0152	0.0025	16.42	0.0169	0.0134
Si2516	251.611 {1	Y_3710	ppm	5.88	0.0043	0.0739	5.883	5.877
Sn1899	189.989 {4	In2306	ppm	0.0385	0.0002	0.5438	0.0386	0.0383
Sr4215	421.552 {	Y_3710	ppm	0.5867	0.0008	0.1409	0.5873	0.5861
Ti3349	334.904 {1	Y_3600	ppm	0.0837	0.0026	3.105	0.0819	0.0855
Tl1908	190.856 {4	In2306	ppm	0.0842	0.0072	8.536	0.0791	0.0892
V_2924	292.402 {1	Y_3600	ppm	0.3551	0.0095	2.686	0.3483	0.3618
Zn2062	206.200 {4	In2306	ppm	0.2298	0.0035	1.534	0.2323	0.2273

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1028.1	2.2994	0.22366	1026.4	1029.7
In2306	230.606 {4	Cts/S	16438	240.2	1.4612	16268	16608
Y_2243	224.306 {4	Cts/S	23293	308.6	1.3248	23075	23512
Y_3600	360.073 {	Cts/S	214250	4231.7	1.9751	217240	211260

Y_3710	371.030 { ş	Cts/S	68701	319.82	0.46552	68475	68927

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:23:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2725	0.0005	0.1912	0.2729	0.2722
Al3082	308.215 {1	In2306	ppm	2.454	0.0156	0.6338	2.465	2.443
As1890	189.042 {4	Y_2243	ppm	0.5375	0.0019	0.3453	0.5388	0.5362
B_2496	249.678 {1	Y_3710	ppm	0.5275	0.0001	0.0248	0.5274	0.5276
Ba4554	455.403 { ĩ	Y_3710	ppm	0.4911	0.0012	0.238	0.4903	0.4919
Be3130	313.042 {1	Y_3710	ppm	0.4867	0.0001	0.0129	0.4867	0.4867
Ca3158	315.887 {1	In2306	ppm	15.06	0.1599	1.061	15.18	14.95
Ca3181	318.128 {1	In2306	ppm	12.12	0.0741	0.612	12.17	12.06
Cd2288	228.802 {4	Y_2243	ppm	0.5048	0.0035	0.7003	0.5073	0.5023
Co2286	228.616 {4	In2306	ppm	0.4614	0.0049	1.06	0.4649	0.4579
Cr2677	267.716 {1	Y_3600	ppm	0.504	0.0015	0.3016	0.5051	0.503
Cu3247	324.754 {1	Y_3600	ppm	0.5272	0.0015	0.2928	0.5283	0.5261
Fe2404	240.488 {1	In2306	ppm	2.507	0.0259	1.031	2.525	2.489
K_7664	766.490 { ⁄	Y_3710	ppm	11.98	0.0194	0.1618	11.96	11.99
K_7698	769.896 { ⁄	Y_3710	ppm	12.59	0.0142	0.1124	12.58	12.6
Li6707	670.784 { ş	Y_3710	ppm	0.5065	0.0004	0.0821	0.5062	0.5068
Mg2790	279.079 {1	Y_3710	ppm	4.724	0.0239	0.506	4.74	4.707
Mn2576	257.610 {1	Y_3600	ppm	0.621	0.0014	0.2324	0.622	0.62
Mn2576-2	257.610 {1	Y_3710	ppm	0.6156	0.0011	0.1841	0.6164	0.6148
Mo2020	202.030 {4	Y_2243	ppm	0.5735	0.0032	0.5661	0.5758	0.5712
Na5895	589.592 { ş	Y_3710	ppm	12.38	0.0395	0.319	12.35	12.41
Na8183	818.326 { ⁄	Y_3710	ppm	12.63	0.0654	0.5178	12.59	12.68
Ni2316	231.604 {4	In2306	ppm	0.4287	0.0062	1.444	0.4331	0.4244
P_1782	178.284 {4	In2306	ppm	0.48	0.0048	0.9912	0.4833	0.4766
Pb2203	220.353 {4	In2306	ppm	0.4933	0.0049	0.9897	0.4968	0.4899
S_1820	182.034 {4	Y_2243	ppm	-179.9	0.3563	0.198	-179.7	-180.2
Sb2068	206.833 {4	Y_2243	ppm	0.5037	0.0047	0.9336	0.507	0.5003
Se1960	196.090 {4	Y_2243	ppm	0.5511	0.0015	0.2701	0.5521	0.55
Si2516	251.611 {1	Y_3710	ppm	0.8592	0.0012	0.143	0.86	0.8583
Sn1899	189.989 {4	In2306	ppm	0.5124	0.0062	1.208	0.5168	0.508
Sr4215	421.552 { ε	Y_3710	ppm	0.2662	0.0005	0.2048	0.2658	0.2666
Ti3349	334.904 {1	Y_3600	ppm	0.4722	0.0011	0.2249	0.473	0.4715
Tl1908	190.856 {4	In2306	ppm	0.2721	0.0217	7.963	0.2875	0.2568
V_2924	292.402 {1	Y_3600	ppm	0.4686	0.0002	0.0357	0.4685	0.4687
Zn2062	206.200 {4	In2306	ppm	0.4593	0.0059	1.278	0.4635	0.4552

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1070	5.3123	0.49646	1066.3	1073.8
In2306	230.606 {4	Cts/S	18734	139.45	0.74437	18636	18833
Y_2243	224.306 {4	Cts/S	21534	105.72	0.49092	21460	21609
Y_3600	360.073 { ş	Cts/S	199670	73.345	0.03673	199620	199720

Y_3710	371.030 {	Cts/S	61309	40.05	0.06533	61337	61281	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:26:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0063	0.0002	3.37	0.0061	0.0064
Al3082	308.215 {1	In2306	ppm	0.085	0.0147	17.29	0.0746	0.0954
As1890	189.042 {4	Y_2243	ppm	0.0101	0.0011	11.11	0.0093	0.0109
B_2496	249.678 {1	Y_3710	ppm	0.0737	0.0019	2.574	0.0724	0.0751
Ba4554	455.403 {	Y_3710	ppm	0.0098	0	0.2944	0.0099	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.0049	0	0.6044	0.0049	0.0048
Ca3158	315.887 {1	In2306	ppm	0.1237	0.0018	1.478	0.125	0.1224
Ca3181	318.128 {1	In2306	ppm	0.1103	0.015	13.62	0.121	0.0997
Cd2288	228.802 {4	Y_2243	ppm	0.006	0.0008	13.34	0.0054	0.0066
Co2286	228.616 {4	In2306	ppm	0.01	0.0007	6.753	0.0096	0.0105
Cr2677	267.716 {1	Y_3600	ppm	0.0106	0.0001	0.8084	0.0105	0.0106
Cu3247	324.754 {1	Y_3600	ppm	0.0177	0	0.2522	0.0177	0.0177
Fe2404	240.488 {1	In2306	ppm	0.1029	0.0001	0.1297	0.103	0.1028
K_7664	766.490 {	Y_3710	ppm	0.7212	0.0046	0.6329	0.7244	0.718
K_7698	769.896 {	Y_3710	ppm	0.7894	0.0237	3.001	0.7727	0.8062
Li6707	670.784 {	Y_3710	ppm	0.0102	0.0003	3.027	0.01	0.0104
Mg2790	279.079 {1	Y_3710	ppm	0.0959	0.0073	7.644	0.0907	0.1011
Mn2576	257.610 {1	Y_3600	ppm	0.013	0.0004	3.017	0.0127	0.0133
Mn2576-2	257.610 {1	Y_3710	ppm	0.0122	0.0001	0.9161	0.0122	0.0123
Mo2020	202.030 {4	Y_2243	ppm	0.0145	0.0016	10.78	0.0134	0.0156
Na5895	589.592 {	Y_3710	ppm	0.6049	0.0024	0.3898	0.6065	0.6032
Na8183	818.326 {	Y_3710	ppm	0.5151	0.0591	11.48	0.5569	0.4733
Ni2316	231.604 {4	In2306	ppm	0.0097	0.0008	7.778	0.0092	0.0103
P_1782	178.284 {4	In2306	ppm	0.0076	0.0009	12.06	0.007	0.0082
Pb2203	220.353 {4	In2306	ppm	0.0115	0.0006	5.109	0.0111	0.0119
S_1820	182.034 {4	Y_2243	ppm	0.359	0.2672	74.45	0.548	0.17
Sb2068	206.833 {4	Y_2243	ppm	0.0135	0.001	7.588	0.0128	0.0142
Se1960	196.090 {4	Y_2243	ppm	0.0117	0.0003	2.675	0.0119	0.0115
Si2516	251.611 {1	Y_3710	ppm	0.0083	0.0029	34.53	0.0103	0.0063
Sn1899	189.989 {4	In2306	ppm	0.0116	0.001	8.533	0.0109	0.0123
Sr4215	421.552 {	Y_3710	ppm	0.0054	0	0.1872	0.0054	0.0054
Ti3349	334.904 {1	Y_3600	ppm	0.0096	0	0.4483	0.0095	0.0096
Tl1908	190.856 {4	In2306	ppm	0.1189	0.006	5.088	0.1146	0.1231
V_2924	292.402 {1	Y_3600	ppm	0.0095	0.0003	2.788	0.0096	0.0093
Zn2062	206.200 {4	In2306	ppm	0.0098	0.0008	8.616	0.0092	0.0104

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1092.6	6.4034	0.58607	1088.1	1097.1
In2306	230.606 {4	Cts/S	19615	171.12	0.87238	19494	19736
Y_2243	224.306 {4	Cts/S	21636	209.24	0.96711	21488	21784
Y_3600	360.073 {	Cts/S	201200	2024.2	1.0061	202630	199770

Y_3710	371.030 { ş	Cts/S	62061	94.174	0.15174	62127	61994

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:28:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0004	72.47	0.0008	0.0002
Al3082	308.215 {1	In2306	ppm	-0.0143	0.0063	43.86	-0.0099	-0.0187
As1890	189.042 {4	Y_2243	ppm	-0.0004	0.0014	370.9	-0.0013	0.0006
B_2496	249.678 {1	Y_3710	ppm	0.0607	0.001	1.716	0.0614	0.06
Ba4554	455.403 { ĩ	Y_3710	ppm	-0.0001	0.0001	74.45	-0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	18.21	0	0
Ca3158	315.887 {1	In2306	ppm	0.0002	0.003	1250	0.0023	-0.0019
Ca3181	318.128 {1	In2306	ppm	0.0206	0.0073	35.47	0.0154	0.0257
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	11.53	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0	0	106.8	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0	13.69	0.0003	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0076	0.0003	3.782	0.0079	0.0074
Fe2404	240.488 {1	In2306	ppm	0.0013	0.0006	47.25	0.0017	0.0009
K_7664	766.490 { ⁄	Y_3710	ppm	0.1251	0.0082	6.549	0.1193	0.1309
K_7698	769.896 { ⁄	Y_3710	ppm	0.1562	0.0096	6.134	0.1495	0.163
Li6707	670.784 { ş	Y_3710	ppm	-0.001	0.0002	17.67	-0.0009	-0.0011
Mg2790	279.079 {1	Y_3710	ppm	-0.0044	0.0048	108	-0.001	-0.0078
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	300.6	0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0001	0.0002	186	0	-0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0002	167.1	0	0.0003
Na5895	589.592 { ş	Y_3710	ppm	-0.0013	0.0004	27.39	-0.001	-0.0015
Na8183	818.326 { ⁄	Y_3710	ppm	0.0768	0.1051	136.9	0.0025	0.1512
Ni2316	231.604 {4	In2306	ppm	0.0005	0.0001	20.71	0.0006	0.0005
P_1782	178.284 {4	In2306	ppm	-0.0024	0.0001	5.979	-0.0025	-0.0023
Pb2203	220.353 {4	In2306	ppm	0.0006	0.0005	77.69	0.0003	0.001
S_1820	182.034 {4	Y_2243	ppm	0.6066	0.0174	2.87	0.6189	0.5943
Sb2068	206.833 {4	Y_2243	ppm	0.0009	0.0011	121.6	0.0017	0.0001
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0019	2859	0.0014	-0.0013
Si2516	251.611 {1	Y_3710	ppm	0.0048	0.0105	219.5	0.0122	-0.0026
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0004	236.3	-0.0004	0.0001
Sr4215	421.552 { ş	Y_3710	ppm	-0.0001	0	29.31	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0003	7116	0.0002	-0.0002
Tl1908	190.856 {4	In2306	ppm	0.0707	0.005	7.132	0.0671	0.0743
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0001	117.3	0	-0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	15.29	-0.0003	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1094.6	1.028	0.09391	1093.9	1095.3
In2306	230.606 {4	Cts/S	19769	151.66	0.76714	19662	19877
Y_2243	224.306 {4	Cts/S	21726	132.5	0.60984	21633	21820
Y_3600	360.073 { ş	Cts/S	200280	4483	2.2383	203450	197110

Y_3710	371.030 {	Cts/S	62174	21.322	0.03429	62159	62189	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60698-b-11-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:30:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0052	0.0002	4.287	-0.0053	-0.005
Al3082	308.215 {1	In2306	ppm	182.5	12.74	6.985	173.4	191.5
As1890	189.042 {4	Y_2243	ppm	0.047	0.0003	0.5798	0.0472	0.0468
B_2496	249.678 {1	Y_3710	ppm	0.0797	0.0056	7.048	0.0757	0.0837
Ba4554	455.403 {	Y_3710	ppm	1.941	0.1275	6.566	1.851	2.031
Be3130	313.042 {1	Y_3710	ppm	0.0165	0.0011	6.931	0.0157	0.0174
Ca3158	315.887 {1	In2306	ppm	120.1	7.649	6.37	114.7	125.5
Ca3181	318.128 {1	In2306	ppm	94.16	5.952	6.321	89.95	98.37
Cd2288	228.802 {4	Y_2243	ppm	0.0005	0	3.441	0.0005	0.0005
Co2286	228.616 {4	In2306	ppm	0.2937	0.0016	0.5463	0.2948	0.2926
Cr2677	267.716 {1	Y_3600	ppm	0.1422	0.0003	0.2431	0.1419	0.1424
Cu3247	324.754 {1	Y_3600	ppm	0.1244	0.0001	0.0411	0.1245	0.1244
Fe2404	240.488 {1	In2306	ppm	183.3	12.04	6.566	174.8	191.8
K_7664	766.490 {	Y_3710	ppm	12.12	0.8316	6.859	11.54	12.71
K_7698	769.896 {	Y_3710	ppm	12.59	0.9401	7.467	11.93	13.26
Li6707	670.784 {	Y_3710	ppm	0.0784	0.0065	8.342	0.0738	0.083
Mg2790	279.079 {1	Y_3710	ppm	23.71	1.544	6.512	22.61	24.8
Mn2576	257.610 {1	Y_3600	ppm	1.914	0.0061	0.3195	1.918	1.909
Mn2576-2	257.610 {1	Y_3710	ppm	1.976	0.1279	6.475	1.886	2.067
Mo2020	202.030 {4	Y_2243	ppm	0.0069	0.0001	1.662	0.007	0.0068
Na5895	589.592 {	Y_3710	ppm	2.249	0.1599	7.108	2.136	2.362
Na8183	818.326 {	Y_3710	ppm	2.858	0.1579	5.526	2.746	2.97
Ni2316	231.604 {4	In2306	ppm	0.1002	0.0006	0.6066	0.1007	0.0998
P_1782	178.284 {4	In2306	ppm	1.626	0.0131	0.8086	1.635	1.616
Pb2203	220.353 {4	In2306	ppm	0.9496	0.0052	0.5511	0.9533	0.9459
S_1820	182.034 {4	Y_2243	ppm	-196.9	1.311	0.6658	-197.8	-195.9
Sb2068	206.833 {4	Y_2243	ppm	-0.0084	0.0017	20.33	-0.0096	-0.0072
Se1960	196.090 {4	Y_2243	ppm	0.0029	0.0019	67.69	0.0015	0.0042
Si2516	251.611 {1	Y_3710	ppm	7.187	0.4806	6.687	6.847	7.527
Sn1899	189.989 {4	In2306	ppm	0.0414	0.0002	0.5036	0.0415	0.0412
Sr4215	421.552 {	Y_3710	ppm	0.5837	0.039	6.682	0.5562	0.6113
Ti3349	334.904 {1	Y_3600	ppm	0.138	0.0002	0.1144	0.1381	0.1379
Tl1908	190.856 {4	In2306	ppm	0.0502	0.007	13.86	0.0453	0.0551
V_2924	292.402 {1	Y_3600	ppm	0.4531	0.0021	0.4649	0.4517	0.4546
Zn2062	206.200 {4	In2306	ppm	0.2615	0.0011	0.4111	0.2623	0.2608

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	999.37	47.115	4.7144	1032.7	966.06
In2306	230.606 {4	Cts/S	16415	57.697	0.35148	16374	16456
Y_2243	224.306 {4	Cts/S	22863	82.138	0.35926	22805	22921
Y_3600	360.073 {	Cts/S	210860	586.34	0.27807	210450	211280

Y_3710	371.030 { ş	Cts/S	65820	3040.8	4.6198	67970	63669

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:33:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0015	0.0008	51.99	-0.0009	-0.0021
Al3082	308.215 {1	In2306	ppm	50.02	0.3961	0.7918	50.3	49.74
As1890	189.042 {4	Y_2243	ppm	1.048	0.004	0.3813	1.051	1.045
B_2496	249.678 {1	Y_3710	ppm	0.1408	0.003	2.138	0.1429	0.1387
Ba4554	455.403 { ĩ	Y_3710	ppm	0.4518	0.0037	0.8184	0.4544	0.4492
Be3130	313.042 {1	Y_3710	ppm	0.0047	0	0.1314	0.0047	0.0047
Ca3158	315.887 {1	In2306	ppm	5558	17.88	0.3217	5571	5545
Ca3181	318.128 {1	In2306	ppm	5103	15.79	0.3094	5115	5092
Cd2288	228.802 {4	Y_2243	ppm	19.75	0.0154	0.0777	19.76	19.74
Co2286	228.616 {4	In2306	ppm	0.07	0.0023	3.247	0.0684	0.0716
Cr2677	267.716 {1	Y_3600	ppm	0.1508	0.0006	0.4006	0.1504	0.1512
Cu3247	324.754 {1	Y_3600	ppm	3.94	0.0264	0.6688	3.922	3.959
Fe2404	240.488 {1	In2306	ppm	200.7	1.784	0.8889	202	199.5
K_7664	766.490 { ⁄	Y_3710	ppm	7.385	0.0002	0.0034	7.385	7.384
K_7698	769.896 { ⁄	Y_3710	ppm	7.421	0.0349	0.4709	7.446	7.396
Li6707	670.784 { ş	Y_3710	ppm	0.2494	0.0011	0.4275	0.2501	0.2486
Mg2790	279.079 {1	Y_3710	ppm	680.1	4.605	0.6771	683.4	676.8
Mn2576	257.610 {1	Y_3600	ppm	3.016	0.0178	0.5887	3.003	3.029
Mn2576-2	257.610 {1	Y_3710	ppm	3.097	0.0262	0.8464	3.116	3.079
Mo2020	202.030 {4	Y_2243	ppm	0.0105	0.0002	1.633	0.0106	0.0103
Na5895	589.592 { ş	Y_3710	ppm	12.02	0.0811	0.6751	12.07	11.96
Na8183	818.326 { ⁄	Y_3710	ppm	12.09	0.0971	0.8031	12.16	12.02
Ni2316	231.604 {4	In2306	ppm	1.446	0.0061	0.4234	1.441	1.45
P_1782	178.284 {4	In2306	ppm	6.828	0.0455	0.6659	6.795	6.86
Pb2203	220.353 {4	In2306	ppm	55.65	0.2054	0.3691	55.51	55.8
S_1820	182.034 {4	Y_2243	ppm	-3215	5.006	0.1557	-3218	-3211
Sb2068	206.833 {4	Y_2243	ppm	0.5895	0.0048	0.8159	0.5929	0.5861
Se1960	196.090 {4	Y_2243	ppm	0.0663	0.0007	1.098	0.0668	0.0657
Si2516	251.611 {1	Y_3710	ppm	10.39	0.3105	2.988	10.61	10.17
Sn1899	189.989 {4	In2306	ppm	2.027	0.0014	0.0685	2.028	2.026
Sr4215	421.552 { ε	Y_3710	ppm	4.779	0.0441	0.922	4.81	4.748
Ti3349	334.904 {1	Y_3600	ppm	0.4202	0.0004	0.1037	0.4199	0.4205
Tl1908	190.856 {4	In2306	ppm	0.0312	0.0051	16.3	0.0276	0.0348
V_2924	292.402 {1	Y_3600	ppm	0.135	0.0009	0.6556	0.1344	0.1356
Zn2062	206.200 {4	In2306	ppm	3.89	0.0164	0.4218	3.878	3.901

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	803.01	3.1547	0.39286	800.78	805.25
In2306	230.606 {4	Cts/S	10325	59.151	0.57287	10367	10284
Y_2243	224.306 {4	Cts/S	15998	30.209	0.18883	16020	15977
Y_3600	360.073 { ş	Cts/S	154480	690.88	0.44723	154970	153990

Y_3710	371.030 { ⁹	Cts/S	54909	155.69	0.28354	54799	55019

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:35:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0005	0.0004	81.38	-0.0008	-0.0002
Al3082	308.215 {1	In2306	ppm	206.9	0.3006	0.1453	206.7	207.1
As1890	189.042 {4	Y_2243	ppm	1.201	0.0103	0.8561	1.194	1.208
B_2496	249.678 {1	Y_3710	ppm	0.1629	0.0024	1.466	0.1612	0.1646
Ba4554	455.403 { ⁷	Y_3710	ppm	1.809	0.0017	0.0951	1.808	1.81
Be3130	313.042 {1	Y_3710	ppm	0.0122	0.0002	1.383	0.0121	0.0123
Ca3158	315.887 {1	In2306	ppm	2159	16.48	0.7633	2147	2170
Ca3181	318.128 {1	In2306	ppm	1794	5.35	0.2982	1798	1790
Cd2288	228.802 {4	Y_2243	ppm	0.2224	0.0566	25.46	0.1824	0.2624
Co2286	228.616 {4	In2306	ppm	0.1592	0.001	0.6441	0.1585	0.1599
Cr2677	267.716 {1	Y_3600	ppm	0.2455	0.0022	0.8881	0.2471	0.244
Cu3247	324.754 {1	Y_3600	ppm	0.7096	0.006	0.8479	0.7139	0.7054
Fe2404	240.488 {1	In2306	ppm	259.3	0.3227	0.1245	259	259.5
K_7664	766.490 { ⁴	Y_3710	ppm	23.67	0.0812	0.343	23.61	23.72
K_7698	769.896 { ⁴	Y_3710	ppm	24.88	0.0795	0.3195	24.82	24.93
Li6707	670.784 { ⁸	Y_3710	ppm	0.1424	0.0002	0.1055	0.1423	0.1425
Mg2790	279.079 {1	Y_3710	ppm	25.92	0.1602	0.6182	25.81	26.03
Mn2576	257.610 {1	Y_3600	ppm	7.583	0.008	0.1059	7.578	7.589
Mn2576-2	257.610 {1	Y_3710	ppm	7.851	0.0623	0.793	7.807	7.895
Mo2020	202.030 {4	Y_2243	ppm	0.0316	0	0.1097	0.0316	0.0315
Na5895	589.592 { ⁸	Y_3710	ppm	104	0.4006	0.3853	103.7	104.3
Na8183	818.326 { ⁴	Y_3710	ppm	106.5	0.5217	0.4897	106.2	106.9
Ni2316	231.604 {4	In2306	ppm	0.6291	0.0075	1.2	0.6238	0.6345
P_1782	178.284 {4	In2306	ppm	13.94	0.1571	1.127	13.83	14.05
Pb2203	220.353 {4	In2306	ppm	106.8	0.7371	0.6902	106.3	107.3
S_1820	182.034 {4	Y_2243	ppm	-4332	35.55	0.8207	-4307	-4357
Sb2068	206.833 {4	Y_2243	ppm	1.571	0.0083	0.5288	1.565	1.577
Se1960	196.090 {4	Y_2243	ppm	0.0161	0.0015	9.119	0.015	0.0171
Si2516	251.611 {1	Y_3710	ppm	10.97	0.0191	0.1739	10.96	10.98
Sn1899	189.989 {4	In2306	ppm	0.4996	0.0093	1.852	0.493	0.5061
Sr4215	421.552 { ⁸	Y_3710	ppm	5.51	0.0525	0.9534	5.548	5.473
Ti3349	334.904 {1	Y_3600	ppm	0.2736	0.0012	0.4392	0.2745	0.2728
Tl1908	190.856 {4	In2306	ppm	0.0119	0.0026	22.08	0.0101	0.0138
V_2924	292.402 {1	Y_3600	ppm	0.7599	0.0071	0.9285	0.7649	0.7549
Zn2062	206.200 {4	In2306	ppm	1.859	0.0189	1.018	1.846	1.873

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	917.99	0.27586	0.03005	917.8	918.19
In2306	230.606 {4	Cts/S	12858	112.75	0.87684	12938	12779
Y_2243	224.306 {4	Cts/S	20373	156.57	0.76848	20484	20263
Y_3600	360.073 { ⁹	Cts/S	186780	1204.6	0.64497	185920	187630

Y_3710	371.030 { ⁹	Cts/S	63698	108.7	0.17065	63775	63621	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:38:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.003	0.0001	3.189	-0.0031	-0.0029
Al3082	308.215 {1	In2306	ppm	266.7	8.303	3.113	260.9	272.6
As1890	189.042 {4	Y_2243	ppm	0.4193	0.005	1.181	0.4228	0.4158
B_2496	249.678 {1	Y_3710	ppm	0.1886	0.0034	1.819	0.1862	0.1911
Ba4554	455.403 { ⁷	Y_3710	ppm	2.187	0.0409	1.869	2.158	2.216
Be3130	313.042 {1	Y_3710	ppm	0.0138	0.0003	2.088	0.0136	0.014
Ca3158	315.887 {1	In2306	ppm	2668	55.06	2.064	2629	2707
Ca3181	318.128 {1	In2306	ppm	2256	67.65	2.999	2208	2304
Cd2288	228.802 {4	Y_2243	ppm	0.1559	0.0029	1.872	0.1539	0.158
Co2286	228.616 {4	In2306	ppm	0.1555	0.0035	2.26	0.158	0.153
Cr2677	267.716 {1	Y_3600	ppm	0.2776	0.0001	0.0419	0.2777	0.2775
Cu3247	324.754 {1	Y_3600	ppm	0.3204	0.001	0.3221	0.3197	0.3211
Fe2404	240.488 {1	In2306	ppm	314.2	9.4	2.992	307.6	320.9
K_7664	766.490 { ⁴	Y_3710	ppm	31.73	0.7367	2.322	31.21	32.25
K_7698	769.896 { ⁴	Y_3710	ppm	33.27	0.7212	2.168	32.76	33.78
Li6707	670.784 { ⁸	Y_3710	ppm	0.1786	0.0053	2.948	0.1749	0.1823
Mg2790	279.079 {1	Y_3710	ppm	32.39	0.7049	2.176	31.89	32.89
Mn2576	257.610 {1	Y_3600	ppm	15.83	0.0277	0.1748	15.85	15.81
Mn2576-2	257.610 {1	Y_3710	ppm	17.44	0.4041	2.317	17.15	17.73
Mo2020	202.030 {4	Y_2243	ppm	0.0227	0.0007	2.875	0.0232	0.0222
Na5895	589.592 { ⁸	Y_3710	ppm	95.86	2.171	2.265	94.32	97.39
Na8183	818.326 { ⁴	Y_3710	ppm	97.72	2.314	2.368	96.09	99.36
Ni2316	231.604 {4	In2306	ppm	0.4935	0.01	2.025	0.5005	0.4864
P_1782	178.284 {4	In2306	ppm	22.15	0.6686	3.018	22.63	21.68
Pb2203	220.353 {4	In2306	ppm	8.268	0.7624	9.221	7.729	8.807
S_1820	182.034 {4	Y_2243	ppm	-1963	26.23	1.336	-1982	-1945
Sb2068	206.833 {4	Y_2243	ppm	0.0611	0.0168	27.47	0.0492	0.0729
Se1960	196.090 {4	Y_2243	ppm	0.0144	0.0025	17.17	0.0126	0.0161
Si2516	251.611 {1	Y_3710	ppm	10.44	0.2251	2.155	10.28	10.6
Sn1899	189.989 {4	In2306	ppm	0.0778	0.0049	6.327	0.0743	0.0813
Sr4215	421.552 { ⁸	Y_3710	ppm	6.362	0.0327	0.5146	6.339	6.385
Ti3349	334.904 {1	Y_3600	ppm	0.3066	0.001	0.338	0.3073	0.3059
Tl1908	190.856 {4	In2306	ppm	-0.0103	0.001	9.868	-0.0096	-0.011
V_2924	292.402 {1	Y_3600	ppm	0.8837	0.0009	0.0979	0.8844	0.8831
Zn2062	206.200 {4	In2306	ppm	1.033	0.0134	1.293	1.043	1.024

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	885.26	20.202	2.2821	899.55	870.98
In2306	230.606 {4	Cts/S	12292	250.23	2.0357	12115	12469
Y_2243	224.306 {4	Cts/S	20239	360.08	1.7792	19984	20493
Y_3600	360.073 { ⁹	Cts/S	186720	542.34	0.29046	187100	186330

Y_3710	371.030 { ⁹	Cts/S	63756	1062.3	1.6662	64507	63005	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:40:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0022	0.0001	5.321	-0.0023	-0.0021
Al3082	308.215 {1	In2306	ppm	226.6	0.8711	0.3845	227.2	226
As1890	189.042 {4	Y_2243	ppm	0.6632	0.0009	0.1382	0.6626	0.6639
B_2496	249.678 {1	Y_3710	ppm	0.186	0.0032	1.715	0.1883	0.1838
Ba4554	455.403 { ⁷	Y_3710	ppm	2.126	0.0095	0.4447	2.119	2.132
Be3130	313.042 {1	Y_3710	ppm	0.0129	0.0002	1.183	0.0131	0.0128
Ca3158	315.887 {1	In2306	ppm	2139	29.07	1.359	2159	2118
Ca3181	318.128 {1	In2306	ppm	1782	4.639	0.2603	1785	1779
Cd2288	228.802 {4	Y_2243	ppm	0.0528	0.0012	2.335	0.0519	0.0537
Co2286	228.616 {4	In2306	ppm	0.1795	0.0014	0.7809	0.1785	0.1805
Cr2677	267.716 {1	Y_3600	ppm	0.2679	0	0.0187	0.2679	0.2678
Cu3247	324.754 {1	Y_3600	ppm	0.42	0.0015	0.3491	0.421	0.4189
Fe2404	240.488 {1	In2306	ppm	274.9	1.683	0.6124	276.1	273.7
K_7664	766.490 { ⁴	Y_3710	ppm	24.5	0.0442	0.1803	24.53	24.47
K_7698	769.896 { ⁴	Y_3710	ppm	25.64	0.0286	0.1115	25.66	25.62
Li6707	670.784 { ⁸	Y_3710	ppm	0.1566	0	0.0007	0.1566	0.1566
Mg2790	279.079 {1	Y_3710	ppm	29.5	0.2496	0.8462	29.67	29.32
Mn2576	257.610 {1	Y_3600	ppm	11.03	0.1159	1.051	11.12	10.95
Mn2576-2	257.610 {1	Y_3710	ppm	11.56	0.0049	0.042	11.56	11.56
Mo2020	202.030 {4	Y_2243	ppm	0.0161	0.0002	1.272	0.016	0.0163
Na5895	589.592 { ⁸	Y_3710	ppm	47.63	0.0515	0.1082	47.67	47.6
Na8183	818.326 { ⁴	Y_3710	ppm	48.99	0.0024	0.0049	48.99	48.99
Ni2316	231.604 {4	In2306	ppm	0.5266	0.0049	0.935	0.5231	0.5301
P_1782	178.284 {4	In2306	ppm	13.37	0.1511	1.13	13.26	13.48
Pb2203	220.353 {4	In2306	ppm	24.47	0.1563	0.6384	24.36	24.59
S_1820	182.034 {4	Y_2243	ppm	-5044	17.03	0.3376	-5032	-5056
Sb2068	206.833 {4	Y_2243	ppm	0.367	0.0033	0.8918	0.3647	0.3693
Se1960	196.090 {4	Y_2243	ppm	0.0162	0.0007	4.05	0.0167	0.0157
Si2516	251.611 {1	Y_3710	ppm	11.74	0.0808	0.6885	11.8	11.68
Sn1899	189.989 {4	In2306	ppm	0.2736	0.0019	0.711	0.2722	0.275
Sr4215	421.552 { ⁸	Y_3710	ppm	5.101	0.0345	0.6764	5.125	5.076
Ti3349	334.904 {1	Y_3600	ppm	0.296	0.0005	0.1601	0.2957	0.2963
Tl1908	190.856 {4	In2306	ppm	-0.0094	0.0003	3.636	-0.0091	-0.0096
V_2924	292.402 {1	Y_3600	ppm	0.7501	0.0006	0.0848	0.7505	0.7496
Zn2062	206.200 {4	In2306	ppm	1.134	0.0096	0.8459	1.127	1.141

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	920.65	2.6938	0.29259	918.75	922.56
In2306	230.606 {4	Cts/S	12977	127.78	0.98467	13067	12887
Y_2243	224.306 {4	Cts/S	20558	149.07	0.7251	20664	20453
Y_3600	360.073 { ⁹	Cts/S	187920	319.94	0.17025	187700	188150

Y_3710	371.030 {	Cts/S	64215	283.88	0.44207	64014	64416

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-5-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:43:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0025	0.0003	11.05	-0.0023	-0.0027
Al3082	308.215 {1	In2306	ppm	255.6	0.182	0.0712	255.7	255.5
As1890	189.042 {4	Y_2243	ppm	0.2807	0.0031	1.112	0.2785	0.283
B_2496	249.678 {1	Y_3710	ppm	0.1509	0.0046	3.081	0.1542	0.1476
Ba4554	455.403 {	Y_3710	ppm	2.026	0.0035	0.1751	2.024	2.029
Be3130	313.042 {1	Y_3710	ppm	0.0138	0.0002	1.273	0.0139	0.0137
Ca3158	315.887 {1	In2306	ppm	2612	0.1459	0.0056	2612	2612
Ca3181	318.128 {1	In2306	ppm	2201	5.963	0.2709	2205	2197
Cd2288	228.802 {4	Y_2243	ppm	0.0091	0.0004	3.942	0.0089	0.0094
Co2286	228.616 {4	In2306	ppm	0.1312	0.001	0.7911	0.1305	0.132
Cr2677	267.716 {1	Y_3600	ppm	0.2728	0	0.014	0.2728	0.2729
Cu3247	324.754 {1	Y_3600	ppm	0.2985	0.0004	0.1416	0.2988	0.2982
Fe2404	240.488 {1	In2306	ppm	296.5	0.1346	0.0454	296.4	296.6
K_7664	766.490 {	Y_3710	ppm	20.45	0.019	0.0928	20.47	20.44
K_7698	769.896 {	Y_3710	ppm	21.39	0.0334	0.156	21.42	21.37
Li6707	670.784 {	Y_3710	ppm	0.1649	0.0008	0.4982	0.1655	0.1643
Mg2790	279.079 {1	Y_3710	ppm	32.3	0.2192	0.6784	32.46	32.15
Mn2576	257.610 {1	Y_3600	ppm	13.04	0.0102	0.0782	13.05	13.04
Mn2576-2	257.610 {1	Y_3710	ppm	13.87	0.1306	0.9413	13.96	13.78
Mo2020	202.030 {4	Y_2243	ppm	0.0194	0.0001	0.6156	0.0195	0.0194
Na5895	589.592 {	Y_3710	ppm	71.77	0.1094	0.1524	71.85	71.69
Na8183	818.326 {	Y_3710	ppm	73.13	0.447	0.6112	73.44	72.81
Ni2316	231.604 {4	In2306	ppm	0.4369	0.0014	0.3251	0.4359	0.4379
P_1782	178.284 {4	In2306	ppm	14.03	0.0424	0.3023	14	14.06
Pb2203	220.353 {4	In2306	ppm	0.4655	0.1798	38.62	0.3384	0.5926
S_1820	182.034 {4	Y_2243	ppm	-14950	50.04	0.3348	-14980	-14910
Sb2068	206.833 {4	Y_2243	ppm	-0.0072	0.0015	20.97	-0.0062	-0.0083
Se1960	196.090 {4	Y_2243	ppm	0.0133	0.0021	15.91	0.0118	0.0148
Si2516	251.611 {1	Y_3710	ppm	10.48	0.0468	0.4468	10.51	10.44
Sn1899	189.989 {4	In2306	ppm	0.0559	0.0023	4.052	0.0543	0.0575
Sr4215	421.552 {	Y_3710	ppm	6.758	0.0482	0.7132	6.792	6.723
Ti3349	334.904 {1	Y_3600	ppm	0.2806	0.0021	0.7583	0.2821	0.2791
Tl1908	190.856 {4	In2306	ppm	-0.0174	0.0019	11.03	-0.0161	-0.0188
V_2924	292.402 {1	Y_3600	ppm	0.8735	0.001	0.1139	0.8728	0.8742
Zn2062	206.200 {4	In2306	ppm	0.9819	0.0005	0.0476	0.9815	0.9822

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	908.96	3.5144	0.38665	906.47	911.44
In2306	230.606 {4	Cts/S	12506	58.613	0.46866	12548	12465
Y_2243	224.306 {4	Cts/S	20299	84.407	0.41581	20359	20240
Y_3600	360.073 {	Cts/S	186210	339.71	0.18243	186450	185970

Y_3710	371.030 {	Cts/S	64170	402.42	0.62712	63885	64454

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-6-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:46:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0016	0.0005	31.82	-0.0012	-0.0019
Al3082	308.215 {1	In2306	ppm	176.9	0.3557	0.201	176.7	177.2
As1890	189.042 {4	Y_2243	ppm	0.3386	0.0064	1.902	0.3432	0.3341
B_2496	249.678 {1	Y_3710	ppm	0.1347	0.0018	1.349	0.136	0.1334
Ba4554	455.403 {	Y_3710	ppm	1.258	0.0027	0.2128	1.256	1.26
Be3130	313.042 {1	Y_3710	ppm	0.0116	0.0001	0.8515	0.0115	0.0117
Ca3158	315.887 {1	In2306	ppm	1862	37.37	2.007	1835	1888
Ca3181	318.128 {1	In2306	ppm	1540	52.8	3.429	1502	1577
Cd2288	228.802 {4	Y_2243	ppm	0.5765	0.0129	2.237	0.5856	0.5674
Co2286	228.616 {4	In2306	ppm	0.1037	0.0027	2.647	0.1057	0.1018
Cr2677	267.716 {1	Y_3600	ppm	0.2022	0.0047	2.332	0.1989	0.2055
Cu3247	324.754 {1	Y_3600	ppm	0.5394	0.0124	2.296	0.5306	0.5482
Fe2404	240.488 {1	In2306	ppm	290.2	0.3134	0.108	290	290.5
K_7664	766.490 {	Y_3710	ppm	21.47	0.0046	0.0216	21.48	21.47
K_7698	769.896 {	Y_3710	ppm	22.43	0.0977	0.4358	22.36	22.5
Li6707	670.784 {	Y_3710	ppm	0.1496	0.0001	0.0661	0.1495	0.1497
Mg2790	279.079 {1	Y_3710	ppm	21.72	0.0897	0.4131	21.66	21.79
Mn2576	257.610 {1	Y_3600	ppm	5.263	0.1126	2.139	5.184	5.343
Mn2576-2	257.610 {1	Y_3710	ppm	5.056	0.0344	0.6798	5.031	5.08
Mo2020	202.030 {4	Y_2243	ppm	0.042	0.0012	2.756	0.0428	0.0412
Na5895	589.592 {	Y_3710	ppm	52.01	0.257	0.4941	51.83	52.19
Na8183	818.326 {	Y_3710	ppm	53.48	0.1483	0.2774	53.38	53.59
Ni2316	231.604 {4	In2306	ppm	0.3216	0.0062	1.922	0.3259	0.3172
P_1782	178.284 {4	In2306	ppm	16.64	0.3688	2.217	16.9	16.38
Pb2203	220.353 {4	In2306	ppm	137.5	3.162	2.3	139.7	135.2
S_1820	182.034 {4	Y_2243	ppm	-17710	345.6	1.951	-17960	-17470
Sb2068	206.833 {4	Y_2243	ppm	0.2789	0.0068	2.422	0.2836	0.2741
Se1960	196.090 {4	Y_2243	ppm	0.0245	0.0009	3.649	0.0239	0.0252
Si2516	251.611 {1	Y_3710	ppm	8.443	0.004	0.047	8.446	8.44
Sn1899	189.989 {4	In2306	ppm	0.5709	0.0156	2.734	0.582	0.5599
Sr4215	421.552 {	Y_3710	ppm	4.678	0.0455	0.9729	4.646	4.71
Ti3349	334.904 {1	Y_3600	ppm	0.3483	0.009	2.577	0.3419	0.3546
Tl1908	190.856 {4	In2306	ppm	-0.0084	0.0007	8.661	-0.0079	-0.0089
V_2924	292.402 {1	Y_3600	ppm	0.472	0.0106	2.248	0.4645	0.4795
Zn2062	206.200 {4	In2306	ppm	0.9035	0.0188	2.081	0.9168	0.8902

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	933.37	1.5714	0.16836	934.48	932.26
In2306	230.606 {4	Cts/S	13323	195.55	1.4678	13184	13461
Y_2243	224.306 {4	Cts/S	20853	262.35	1.2581	20667	21038
Y_3600	360.073 {	Cts/S	184120	3209.9	1.7434	186390	181850

Y_3710	371.030 { ⁹	Cts/S	65269	191.76	0.2938	65404	65133	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-6-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:48:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0032	0.0006	20.2	-0.0028	-0.0037
Al3082	308.215 {1	In2306	ppm	181.1	2.565	1.416	179.3	182.9
As1890	189.042 {4	Y_2243	ppm	0.2855	0.0085	2.992	0.2915	0.2794
B_2496	249.678 {1	Y_3710	ppm	0.125	0.0011	0.8971	0.1242	0.1258
Ba4554	455.403 { ⁷	Y_3710	ppm	1.596	0.0179	1.12	1.583	1.609
Be3130	313.042 {1	Y_3710	ppm	0.0116	0.0001	1.047	0.0116	0.0117
Ca3158	315.887 {1	In2306	ppm	2451	61.1	2.493	2407	2494
Ca3181	318.128 {1	In2306	ppm	2073	34.73	1.675	2048	2098
Cd2288	228.802 {4	Y_2243	ppm	0.6867	0.0222	3.227	0.7024	0.671
Co2286	228.616 {4	In2306	ppm	0.1217	0.0042	3.414	0.1246	0.1188
Cr2677	267.716 {1	Y_3600	ppm	0.1833	0.0069	3.75	0.1785	0.1882
Cu3247	324.754 {1	Y_3600	ppm	0.2975	0.0124	4.153	0.2888	0.3063
Fe2404	240.488 {1	In2306	ppm	337.6	6.077	1.8	333.3	341.9
K_7664	766.490 { ⁴	Y_3710	ppm	20.36	0.2462	1.209	20.19	20.53
K_7698	769.896 { ⁴	Y_3710	ppm	21.37	0.1846	0.8638	21.24	21.5
Li6707	670.784 { ⁸	Y_3710	ppm	0.1623	0.0008	0.4671	0.1617	0.1628
Mg2790	279.079 {1	Y_3710	ppm	21.32	0.3996	1.875	21.04	21.6
Mn2576	257.610 {1	Y_3600	ppm	5.844	0.2298	3.933	5.681	6.006
Mn2576-2	257.610 {1	Y_3710	ppm	6.165	0.1048	1.699	6.091	6.239
Mo2020	202.030 {4	Y_2243	ppm	0.0303	0.0008	2.63	0.0308	0.0297
Na5895	589.592 { ⁸	Y_3710	ppm	51.23	0.4517	0.8817	50.91	51.55
Na8183	818.326 { ⁴	Y_3710	ppm	52.82	0.5758	1.09	52.41	53.23
Ni2316	231.604 {4	In2306	ppm	0.3876	0.0124	3.203	0.3964	0.3788
P_1782	178.284 {4	In2306	ppm	17.55	0.5986	3.411	17.97	17.13
Pb2203	220.353 {4	In2306	ppm	60.3	1.718	2.849	61.52	59.09
S_1820	182.034 {4	Y_2243	ppm	-8868	250.8	2.828	-9045	-8691
Sb2068	206.833 {4	Y_2243	ppm	0.1622	0.0087	5.362	0.1684	0.1561
Se1960	196.090 {4	Y_2243	ppm	0.0124	0.0013	10.24	0.0115	0.0133
Si2516	251.611 {1	Y_3710	ppm	9.243	0.1294	1.4	9.151	9.334
Sn1899	189.989 {4	In2306	ppm	0.2219	0.0066	2.994	0.2266	0.2172
Sr4215	421.552 { ⁸	Y_3710	ppm	5.896	0.1448	2.456	5.793	5.998
Ti3349	334.904 {1	Y_3600	ppm	0.3223	0.0121	3.77	0.3137	0.3308
Tl1908	190.856 {4	In2306	ppm	-0.011	0.0014	13.11	-0.012	-0.01
V_2924	292.402 {1	Y_3600	ppm	0.5217	0.0188	3.598	0.5084	0.535
Zn2062	206.200 {4	In2306	ppm	0.9295	0.0287	3.092	0.9498	0.9092

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	906.47	14.228	1.5696	916.53	896.41
In2306	230.606 {4	Cts/S	12761	341.02	2.6723	12520	13002
Y_2243	224.306 {4	Cts/S	20355	484.77	2.3816	20012	20697
Y_3600	360.073 { ⁹	Cts/S	191850	6257.6	3.2617	196270	187420

Y_3710	371.030 {	Cts/S	64258	991.02	1.5422	64959	63557	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-6-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:51:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5367	0.0248	4.625	0.5192	0.5543
Al3082	308.215 {1	In2306	ppm	283.3	0.8805	0.3108	283.9	282.7
As1890	189.042 {4	Y_2243	ppm	1.294	0.0127	0.9854	1.303	1.285
B_2496	249.678 {1	Y_3710	ppm	0.7515	0.0051	0.6771	0.7551	0.7479
Ba4554	455.403 {	Y_3710	ppm	3.005	0.001	0.0341	3.005	3.006
Be3130	313.042 {1	Y_3710	ppm	0.4544	0.0011	0.2355	0.4552	0.4536
Ca3158	315.887 {1	In2306	ppm	2555	8.266	0.3235	2549	2561
Ca3181	318.128 {1	In2306	ppm	2158	13.18	0.6109	2149	2167
Cd2288	228.802 {4	Y_2243	ppm	1.185	0.0104	0.8791	1.192	1.177
Co2286	228.616 {4	In2306	ppm	1.137	0.0104	0.916	1.145	1.13
Cr2677	267.716 {1	Y_3600	ppm	1.046	0.047	4.494	1.013	1.079
Cu3247	324.754 {1	Y_3600	ppm	1.258	0.0593	4.715	1.216	1.3
Fe2404	240.488 {1	In2306	ppm	350.1	0.1395	0.0398	350	350.2
K_7664	766.490 {	Y_3710	ppm	36.1	0.2334	0.6466	36.26	35.93
K_7698	769.896 {	Y_3710	ppm	37.89	0.3031	0.8001	38.1	37.67
Li6707	670.784 {	Y_3710	ppm	0.7106	0.0098	1.386	0.7176	0.7037
Mg2790	279.079 {1	Y_3710	ppm	39.61	0.0669	0.1689	39.56	39.65
Mn2576	257.610 {1	Y_3600	ppm	6.784	0.338	4.982	6.545	7.023
Mn2576-2	257.610 {1	Y_3710	ppm	7.209	0.0204	0.2827	7.223	7.195
Mo2020	202.030 {4	Y_2243	ppm	0.8847	0.0128	1.451	0.8938	0.8756
Na5895	589.592 {	Y_3710	ppm	65.26	0.5723	0.8769	65.66	64.85
Na8183	818.326 {	Y_3710	ppm	67.09	0.0804	0.1199	67.15	67.04
Ni2316	231.604 {4	In2306	ppm	1.312	0.0097	0.7377	1.318	1.305
P_1782	178.284 {4	In2306	ppm	17.38	0.1449	0.8338	17.48	17.27
Pb2203	220.353 {4	In2306	ppm	67.95	0.3676	0.541	68.21	67.69
S_1820	182.034 {4	Y_2243	ppm	-17630	197.7	1.121	-17770	-17490
Sb2068	206.833 {4	Y_2243	ppm	0.4999	0.0072	1.437	0.505	0.4948
Se1960	196.090 {4	Y_2243	ppm	1.06	0.0191	1.804	1.074	1.047
Si2516	251.611 {1	Y_3710	ppm	10.6	0.0299	0.2822	10.62	10.58
Sn1899	189.989 {4	In2306	ppm	1.309	0.0129	0.9852	1.318	1.3
Sr4215	421.552 {	Y_3710	ppm	6.41	0.0975	1.521	6.341	6.479
Ti3349	334.904 {1	Y_3600	ppm	0.6823	0.0327	4.797	0.6591	0.7054
Tl1908	190.856 {4	In2306	ppm	0.451	0.0442	9.799	0.4823	0.4198
V_2924	292.402 {1	Y_3600	ppm	1.343	0.0582	4.333	1.302	1.384
Zn2062	206.200 {4	In2306	ppm	2.091	0.0129	0.6166	2.1	2.082

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	902.42	0.8177	0.09061	903	901.85
In2306	230.606 {4	Cts/S	12198	81.753	0.67024	12140	12255
Y_2243	224.306 {4	Cts/S	19699	145.46	0.73843	19596	19801
Y_3600	360.073 {	Cts/S	191870	6753.6	3.5199	196640	187090

Y_3710	371.030 { ⁹	Cts/S	64167	20.829	0.03246	64153	64182

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-6-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:53:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5303	0.0014	0.2627	0.5313	0.5293
Al3082	308.215 {1	In2306	ppm	241.9	1.573	0.65	243.1	240.8
As1890	189.042 {4	Y_2243	ppm	1.35	0.0077	0.5677	1.355	1.345
B_2496	249.678 {1	Y_3710	ppm	0.7365	0.0061	0.8284	0.7408	0.7321
Ba4554	455.403 { ⁷	Y_3710	ppm	3.033	0.0402	1.327	3.062	3.005
Be3130	313.042 {1	Y_3710	ppm	0.4471	0.0039	0.8768	0.4499	0.4443
Ca3158	315.887 {1	In2306	ppm	1929	11.5	0.5961	1937	1921
Ca3181	318.128 {1	In2306	ppm	1601	0.5983	0.0374	1601	1601
Cd2288	228.802 {4	Y_2243	ppm	1.107	0.0082	0.7392	1.113	1.101
Co2286	228.616 {4	In2306	ppm	1.144	0.0128	1.117	1.153	1.135
Cr2677	267.716 {1	Y_3600	ppm	1.044	0.0031	0.2975	1.046	1.041
Cu3247	324.754 {1	Y_3600	ppm	1.407	0.0031	0.2218	1.409	1.405
Fe2404	240.488 {1	In2306	ppm	377.6	4.305	1.14	380.7	374.6
K_7664	766.490 { ⁴	Y_3710	ppm	32.99	0.1324	0.4014	33.08	32.89
K_7698	769.896 { ⁴	Y_3710	ppm	34.62	0.0485	0.1402	34.58	34.65
Li6707	670.784 { ⁸	Y_3710	ppm	0.6557	0.001	0.1553	0.6564	0.655
Mg2790	279.079 {1	Y_3710	ppm	33.48	0.2004	0.5986	33.63	33.34
Mn2576	257.610 {1	Y_3600	ppm	7.31	0.0935	1.279	7.376	7.244
Mn2576-2	257.610 {1	Y_3710	ppm	7.674	0.1061	1.383	7.749	7.599
Mo2020	202.030 {4	Y_2243	ppm	0.8709	0.0083	0.9503	0.8767	0.865
Na5895	589.592 { ⁸	Y_3710	ppm	58.97	0.1918	0.3253	59.1	58.83
Na8183	818.326 { ⁴	Y_3710	ppm	60.63	0.1814	0.2992	60.76	60.5
Ni2316	231.604 {4	In2306	ppm	1.31	0.0129	0.9864	1.319	1.3
P_1782	178.284 {4	In2306	ppm	15.65	0.1818	1.161	15.78	15.53
Pb2203	220.353 {4	In2306	ppm	117.3	1.673	1.426	118.5	116.1
S_1820	182.034 {4	Y_2243	ppm	-14640	83.03	0.5671	-14700	-14580
Sb2068	206.833 {4	Y_2243	ppm	0.6084	0.0061	1.001	0.6127	0.6041
Se1960	196.090 {4	Y_2243	ppm	0.9998	0.003	0.2968	1.002	0.9977
Si2516	251.611 {1	Y_3710	ppm	9.157	0.0416	0.454	9.186	9.128
Sn1899	189.989 {4	In2306	ppm	1.399	0.0185	1.326	1.412	1.386
Sr4215	421.552 { ⁸	Y_3710	ppm	5.971	0.0309	0.5177	5.993	5.949
Ti3349	334.904 {1	Y_3600	ppm	0.697	0.0048	0.6845	0.7004	0.6936
Tl1908	190.856 {4	In2306	ppm	0.5866	0.0483	8.228	0.6207	0.5524
V_2924	292.402 {1	Y_3600	ppm	1.295	0.0099	0.7635	1.302	1.288
Zn2062	206.200 {4	In2306	ppm	2.122	0.0286	1.346	2.142	2.102

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	924.99	3.8868	0.4202	922.24	927.74
In2306	230.606 {4	Cts/S	13137	74.709	0.56869	13084	13190
Y_2243	224.306 {4	Cts/S	21091	38.53	0.18268	21064	21118
Y_3600	360.073 { ⁹	Cts/S	195240	514.3	0.26342	194870	195600

Y_3710	371.030 {	Cts/S	66259	303.99	0.45879	66044	66474	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:56:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2905	0.0231	7.944	0.3068	0.2742
Al3082	308.215 {1	In2306	ppm	2.418	0.0151	0.6254	2.429	2.408
As1890	189.042 {4	Y_2243	ppm	0.5446	0.0039	0.7226	0.5474	0.5418
B_2496	249.678 {1	Y_3710	ppm	0.5199	0.001	0.186	0.5192	0.5206
Ba4554	455.403 {	Y_3710	ppm	0.4893	0	0.0023	0.4893	0.4893
Be3130	313.042 {1	Y_3710	ppm	0.4822	0.0015	0.3059	0.4811	0.4832
Ca3158	315.887 {1	In2306	ppm	15.26	0.1258	0.8246	15.34	15.17
Ca3181	318.128 {1	In2306	ppm	12.02	0.0204	0.1698	12	12.03
Cd2288	228.802 {4	Y_2243	ppm	0.5131	0.0037	0.7242	0.5158	0.5105
Co2286	228.616 {4	In2306	ppm	0.4661	0.004	0.8671	0.469	0.4632
Cr2677	267.716 {1	Y_3600	ppm	0.5406	0.0427	7.904	0.5709	0.5104
Cu3247	324.754 {1	Y_3600	ppm	0.5636	0.0449	7.965	0.5954	0.5319
Fe2404	240.488 {1	In2306	ppm	2.479	0.0037	0.1497	2.481	2.476
K_7664	766.490 {	Y_3710	ppm	11.77	0.0469	0.3983	11.73	11.8
K_7698	769.896 {	Y_3710	ppm	12.49	0.0163	0.1306	12.48	12.51
Li6707	670.784 {	Y_3710	ppm	0.5045	0.0054	1.064	0.5007	0.5083
Mg2790	279.079 {1	Y_3710	ppm	4.647	0.0051	0.1102	4.651	4.644
Mn2576	257.610 {1	Y_3600	ppm	0.671	0.0551	8.208	0.7099	0.632
Mn2576-2	257.610 {1	Y_3710	ppm	0.6219	0.0033	0.5311	0.6242	0.6195
Mo2020	202.030 {4	Y_2243	ppm	0.5918	0.0032	0.5434	0.594	0.5895
Na5895	589.592 {	Y_3710	ppm	12.32	0.0726	0.5896	12.26	12.37
Na8183	818.326 {	Y_3710	ppm	12.44	0.0643	0.517	12.39	12.48
Ni2316	231.604 {4	In2306	ppm	0.43	0.0043	0.9906	0.4331	0.427
P_1782	178.284 {4	In2306	ppm	0.4877	0.0059	1.205	0.4919	0.4836
Pb2203	220.353 {4	In2306	ppm	0.5082	0.0093	1.831	0.5016	0.5148
S_1820	182.034 {4	Y_2243	ppm	-186.9	1.32	0.706	-187.8	-186
Sb2068	206.833 {4	Y_2243	ppm	0.5181	0.0016	0.3153	0.5193	0.517
Se1960	196.090 {4	Y_2243	ppm	0.566	0.0061	1.077	0.5703	0.5616
Si2516	251.611 {1	Y_3710	ppm	0.8541	0.0043	0.5061	0.8511	0.8572
Sn1899	189.989 {4	In2306	ppm	0.5226	0.0061	1.166	0.5269	0.5182
Sr4215	421.552 {	Y_3710	ppm	0.2661	0.0011	0.4126	0.2653	0.2669
Ti3349	334.904 {1	Y_3600	ppm	0.499	0.0399	7.993	0.5272	0.4708
Tl1908	190.856 {4	In2306	ppm	0.4011	0.0125	3.119	0.41	0.3923
V_2924	292.402 {1	Y_3600	ppm	0.4981	0.0401	8.05	0.5264	0.4697
Zn2062	206.200 {4	In2306	ppm	0.4611	0.0052	1.13	0.4648	0.4574

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1094.9	0.55178	0.0504	1095.3	1094.5
In2306	230.606 {4	Cts/S	18573	91.533	0.49282	18509	18638
Y_2243	224.306 {4	Cts/S	21178	65.257	0.30814	21132	21224
Y_3600	360.073 {	Cts/S	190950	11917	6.2408	182530	199380

Y_3710	371.030 {	Cts/S	62273	199.75	0.32076	62131	62414

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 11:58:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0058	0.0002	3.485	0.0059	0.0056
Al3082	308.215 {1	In2306	ppm	0.081	0.0062	7.68	0.0854	0.0766
As1890	189.042 {4	Y_2243	ppm	0.0108	0.0009	7.954	0.0102	0.0114
B_2496	249.678 {1	Y_3710	ppm	0.0598	0.0015	2.504	0.0609	0.0588
Ba4554	455.403 {	Y_3710	ppm	0.0096	0.0003	3.126	0.0098	0.0094
Be3130	313.042 {1	Y_3710	ppm	0.0047	0.0002	3.976	0.0049	0.0046
Ca3158	315.887 {1	In2306	ppm	0.1357	0.0018	1.347	0.1344	0.137
Ca3181	318.128 {1	In2306	ppm	0.1255	0.0021	1.712	0.124	0.127
Cd2288	228.802 {4	Y_2243	ppm	0.0057	0.0003	5.827	0.0055	0.006
Co2286	228.616 {4	In2306	ppm	0.0098	0.0004	4.197	0.0095	0.0101
Cr2677	267.716 {1	Y_3600	ppm	0.01	0.0004	4.087	0.0103	0.0098
Cu3247	324.754 {1	Y_3600	ppm	0.0191	0.0001	0.6641	0.0192	0.019
Fe2404	240.488 {1	In2306	ppm	0.1026	0.0017	1.663	0.1038	0.1014
K_7664	766.490 {	Y_3710	ppm	0.6679	0.004	0.6007	0.6708	0.6651
K_7698	769.896 {	Y_3710	ppm	0.725	0.0425	5.861	0.7551	0.695
Li6707	670.784 {	Y_3710	ppm	0.0096	0.0005	5.231	0.0093	0.01
Mg2790	279.079 {1	Y_3710	ppm	0.0822	0.0053	6.507	0.0784	0.0859
Mn2576	257.610 {1	Y_3600	ppm	0.0129	0	0.144	0.0129	0.0129
Mn2576-2	257.610 {1	Y_3710	ppm	0.0122	0.0005	4.276	0.0126	0.0119
Mo2020	202.030 {4	Y_2243	ppm	0.0145	0.0011	7.474	0.0138	0.0153
Na5895	589.592 {	Y_3710	ppm	0.5853	0.0207	3.534	0.5999	0.5706
Na8183	818.326 {	Y_3710	ppm	0.5365	0.0801	14.92	0.4799	0.5931
Ni2316	231.604 {4	In2306	ppm	0.0093	0.0004	3.993	0.0091	0.0096
P_1782	178.284 {4	In2306	ppm	0.0068	0.0002	3.627	0.0066	0.007
Pb2203	220.353 {4	In2306	ppm	0.0108	0.0008	7.378	0.0102	0.0114
S_1820	182.034 {4	Y_2243	ppm	-0.6334	0.0643	10.15	-0.5879	-0.6788
Sb2068	206.833 {4	Y_2243	ppm	0.0154	0.0007	4.397	0.0149	0.0158
Se1960	196.090 {4	Y_2243	ppm	0.0103	0.002	19.46	0.0089	0.0117
Si2516	251.611 {1	Y_3710	ppm	0.0118	0.0031	26.55	0.0096	0.014
Sn1899	189.989 {4	In2306	ppm	0.0114	0.0004	3.13	0.0111	0.0116
Sr4215	421.552 {	Y_3710	ppm	0.0053	0.0002	4.105	0.0055	0.0052
Ti3349	334.904 {1	Y_3600	ppm	0.0095	0.0001	0.7249	0.0095	0.0094
Tl1908	190.856 {4	In2306	ppm	0.1603	0.0182	11.36	0.1474	0.1732
V_2924	292.402 {1	Y_3600	ppm	0.0091	0	0.3297	0.0092	0.0091
Zn2062	206.200 {4	In2306	ppm	0.0094	0.0003	3.214	0.0091	0.0096

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1121.5	31.655	2.8225	1099.1	1143.9
In2306	230.606 {4	Cts/S	19524	121.26	0.6211	19438	19610
Y_2243	224.306 {4	Cts/S	21372	130.14	0.6089	21280	21464
Y_3600	360.073 {	Cts/S	205930	226.14	0.10982	206090	205770

Y_3710	371.030 {	Cts/S	63821	1711.8	2.6822	62610	65031	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:00:48
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0	11.81	0.0003	0.0002
Al3082	308.215 {1	In2306	ppm	-0.0224	0.0001	0.6522	-0.0223	-0.0225
As1890	189.042 {4	Y_2243	ppm	-0.0007	0.0011	162.2	-0.0015	0.0001
B_2496	249.678 {1	Y_3710	ppm	0.0508	0.0002	0.3747	0.051	0.0507
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	15.53	-0.0002	-0.0002
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	0.0377	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0029	0.0038	131.2	0.0002	0.0055
Ca3181	318.128 {1	In2306	ppm	0.0245	0.0072	29.59	0.0296	0.0194
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	37.77	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	21.79	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	-0.0001	0.0001	115.8	-0.0001	0
Cu3247	324.754 {1	Y_3600	ppm	0.0079	0.0001	0.7688	0.0079	0.008
Fe2404	240.488 {1	In2306	ppm	0.0059	0.0026	43.49	0.0077	0.0041
K_7664	766.490 {	Y_3710	ppm	0.0969	0.002	2.081	0.0955	0.0984
K_7698	769.896 {	Y_3710	ppm	0.1126	0.018	16.01	0.0998	0.1253
Li6707	670.784 {	Y_3710	ppm	-0.0004	0.0001	33.88	-0.0005	-0.0003
Mg2790	279.079 {1	Y_3710	ppm	-0.0072	0.0115	161.2	0.001	-0.0153
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0002	225.8	-0.0002	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.0001	77.44	0.0002	0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0.0001	32.39	0.0003	0.0004
Na5895	589.592 {	Y_3710	ppm	-0.0174	0.0034	19.54	-0.0199	-0.015
Na8183	818.326 {	Y_3710	ppm	0.0114	0.1394	1222	-0.0872	0.11
Ni2316	231.604 {4	In2306	ppm	0.0005	0	7.127	0.0005	0.0005
P_1782	178.284 {4	In2306	ppm	-0.0035	0.001	28.1	-0.0042	-0.0028
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0002	80.86	0.0005	0.0001
S_1820	182.034 {4	Y_2243	ppm	-0.0344	0.2404	699.6	-0.2044	0.1356
Sb2068	206.833 {4	Y_2243	ppm	0.0032	0.0019	60.2	0.0019	0.0046
Se1960	196.090 {4	Y_2243	ppm	0.0006	0.0025	401.9	0.0024	-0.0011
Si2516	251.611 {1	Y_3710	ppm	0.002	0.0015	75.13	0.003	0.0009
Sn1899	189.989 {4	In2306	ppm	0	0.0001	1278	0.0001	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	55.72	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0004	0.0001	34.19	-0.0003	-0.0005
Tl1908	190.856 {4	In2306	ppm	0.0895	0.011	12.24	0.0818	0.0973
V_2924	292.402 {1	Y_3600	ppm	-0.0003	0.0001	38.14	-0.0002	-0.0004
Zn2062	206.200 {4	In2306	ppm	-0.0003	0.0001	33.7	-0.0002	-0.0004

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1108.1	1.7242	0.1556	1106.9	1109.3
In2306	230.606 {4	Cts/S	19773	98.056	0.49591	19842	19704
Y_2243	224.306 {4	Cts/S	21632	78.043	0.36078	21687	21577
Y_3600	360.073 {	Cts/S	202040	2596.7	1.2852	200210	203880

Y_3710	371.030 {	Cts/S	62470	163.21	0.26127	62586	62355	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-7-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:03:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0008	282.1	0.0008	-0.0003
Al3082	308.215 {1	In2306	ppm	183.5	1.446	0.7877	184.5	182.5
As1890	189.042 {4	Y_2243	ppm	0.5257	0.0115	2.192	0.5339	0.5176
B_2496	249.678 {1	Y_3710	ppm	0.1794	0.0009	0.5063	0.1801	0.1788
Ba4554	455.403 {	Y_3710	ppm	1.478	0.0086	0.5843	1.484	1.472
Be3130	313.042 {1	Y_3710	ppm	0.0092	0.0001	1.516	0.0093	0.0091
Ca3158	315.887 {1	In2306	ppm	3706	48.94	1.321	3741	3671
Ca3181	318.128 {1	In2306	ppm	3204	41.02	1.28	3233	3175
Cd2288	228.802 {4	Y_2243	ppm	6.361	0.0446	0.702	6.392	6.329
Co2286	228.616 {4	In2306	ppm	0.0948	0.0012	1.273	0.0956	0.0939
Cr2677	267.716 {1	Y_3600	ppm	0.239	0.0008	0.3345	0.2396	0.2385
Cu3247	324.754 {1	Y_3600	ppm	2.128	0.0297	1.394	2.149	2.107
Fe2404	240.488 {1	In2306	ppm	230.9	2.639	1.143	232.8	229.1
K_7664	766.490 {	Y_3710	ppm	21.17	0.1709	0.807	21.29	21.05
K_7698	769.896 {	Y_3710	ppm	22.2	0.1447	0.6516	22.3	22.1
Li6707	670.784 {	Y_3710	ppm	0.188	0.0055	2.936	0.1919	0.1841
Mg2790	279.079 {1	Y_3710	ppm	102.7	0.8431	0.821	103.3	102.1
Mn2576	257.610 {1	Y_3600	ppm	7.917	0.0368	0.4643	7.943	7.891
Mn2576-2	257.610 {1	Y_3710	ppm	8.026	0.1189	1.482	8.11	7.942
Mo2020	202.030 {4	Y_2243	ppm	0.0165	0.0001	0.7843	0.0164	0.0166
Na5895	589.592 {	Y_3710	ppm	100.3	0.8424	0.8399	100.9	99.71
Na8183	818.326 {	Y_3710	ppm	101.2	0.8649	0.8543	101.9	100.6
Ni2316	231.604 {4	In2306	ppm	0.567	0.0009	0.1663	0.5676	0.5663
P_1782	178.284 {4	In2306	ppm	9.018	0.0413	0.4576	9.047	8.989
Pb2203	220.353 {4	In2306	ppm	77.54	0.4659	0.6009	77.87	77.21
S_1820	182.034 {4	Y_2243	ppm	-6568	44.35	0.6752	-6599	-6537
Sb2068	206.833 {4	Y_2243	ppm	0.3901	0.0084	2.144	0.396	0.3842
Se1960	196.090 {4	Y_2243	ppm	0.3558	0.0007	0.1919	0.3563	0.3553
Si2516	251.611 {1	Y_3710	ppm	9.84	0.0486	0.4938	9.875	9.806
Sn1899	189.989 {4	In2306	ppm	0.8535	0.0087	1.017	0.8597	0.8474
Sr4215	421.552 {	Y_3710	ppm	8.366	0.2119	2.533	8.515	8.216
Ti3349	334.904 {1	Y_3600	ppm	0.2859	0.0014	0.5029	0.2869	0.2849
Tl1908	190.856 {4	In2306	ppm	0.0593	0.0069	11.55	0.0545	0.0642
V_2924	292.402 {1	Y_3600	ppm	0.4801	0.0022	0.4637	0.4817	0.4786
Zn2062	206.200 {4	In2306	ppm	1.792	0.0111	0.6186	1.8	1.784

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	876.9	13.691	1.5613	867.22	886.58
In2306	230.606 {4	Cts/S	11702	45.017	0.38469	11670	11734
Y_2243	224.306 {4	Cts/S	18664	87.651	0.46962	18602	18726
Y_3600	360.073 {	Cts/S	172820	643.25	0.37221	172360	173270

Y_3710	371.030 { ⁹	Cts/S	61410	770.97	1.2554	60865	61955

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-b-8-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:05:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0005	149.4	0	-0.0007
Al3082	308.215 {1	In2306	ppm	128.8	1.053	0.8175	128.1	129.6
As1890	189.042 {4	Y_2243	ppm	0.8258	0.0032	0.3895	0.8235	0.8281
B_2496	249.678 {1	Y_3710	ppm	0.166	0.0011	0.6733	0.1668	0.1652
Ba4554	455.403 { ⁷	Y_3710	ppm	1.592	0.0186	1.171	1.579	1.605
Be3130	313.042 {1	Y_3710	ppm	0.0073	0.0001	0.9388	0.0073	0.0074
Ca3158	315.887 {1	In2306	ppm	1658	5.76	0.3475	1653	1662
Ca3181	318.128 {1	In2306	ppm	1343	1.234	0.0919	1342	1344
Cd2288	228.802 {4	Y_2243	ppm	1.101	0.0266	2.417	1.082	1.12
Co2286	228.616 {4	In2306	ppm	0.0833	0.0007	0.8494	0.0828	0.0838
Cr2677	267.716 {1	Y_3600	ppm	0.2005	0.0022	1.098	0.1989	0.202
Cu3247	324.754 {1	Y_3600	ppm	1.537	0.0098	0.6401	1.53	1.544
Fe2404	240.488 {1	In2306	ppm	294.9	2.103	0.7131	293.4	296.3
K_7664	766.490 { ⁴	Y_3710	ppm	15.99	0.1054	0.6596	15.91	16.06
K_7698	769.896 { ⁴	Y_3710	ppm	16.75	0.1337	0.798	16.66	16.85
Li6707	670.784 { ⁸	Y_3710	ppm	0.0969	0.0031	3.158	0.0948	0.0991
Mg2790	279.079 {1	Y_3710	ppm	61.97	0.0112	0.0181	61.97	61.98
Mn2576	257.610 {1	Y_3600	ppm	4.62	0.0202	0.4363	4.605	4.634
Mn2576-2	257.610 {1	Y_3710	ppm	4.583	0.0092	0.2016	4.576	4.589
Mo2020	202.030 {4	Y_2243	ppm	0.0147	0.0003	1.798	0.0145	0.0149
Na5895	589.592 { ⁸	Y_3710	ppm	77.5	0.6659	0.8592	77.03	77.97
Na8183	818.326 { ⁴	Y_3710	ppm	79.25	0.347	0.4379	79	79.5
Ni2316	231.604 {4	In2306	ppm	0.3532	0.0031	0.8692	0.351	0.3554
P_1782	178.284 {4	In2306	ppm	7.099	0.0488	0.6881	7.065	7.134
Pb2203	220.353 {4	In2306	ppm	109.4	0.7777	0.711	108.8	109.9
S_1820	182.034 {4	Y_2243	ppm	-6276	57.77	0.9206	-6235	-6316
Sb2068	206.833 {4	Y_2243	ppm	0.9257	0.0004	0.0443	0.9254	0.9259
Se1960	196.090 {4	Y_2243	ppm	0.0766	0.0008	1.058	0.076	0.0772
Si2516	251.611 {1	Y_3710	ppm	8.525	0.0828	0.9713	8.466	8.583
Sn1899	189.989 {4	In2306	ppm	1.368	0.0074	0.5433	1.363	1.373
Sr4215	421.552 { ⁸	Y_3710	ppm	4.062	0.0244	0.6016	4.044	4.079
Ti3349	334.904 {1	Y_3600	ppm	0.3165	0.004	1.276	0.3136	0.3194
Tl1908	190.856 {4	In2306	ppm	0.036	0.0068	18.93	0.0312	0.0409
V_2924	292.402 {1	Y_3600	ppm	0.4247	0.0032	0.7589	0.4224	0.427
Zn2062	206.200 {4	In2306	ppm	1.056	0.0085	0.803	1.05	1.062

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	930.47	1.1878	0.12765	931.3	929.63
In2306	230.606 {4	Cts/S	13270	114.57	0.86338	13351	13189
Y_2243	224.306 {4	Cts/S	19774	172.54	0.87259	19896	19652
Y_3600	360.073 { ⁹	Cts/S	182620	1383.3	0.7575	183600	181640

Y_3710	371.030 {	Cts/S	62906	9.7177	0.01545	62899	62913	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-a-9-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:08:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.003	0.0005	17.78	-0.0033	-0.0026
Al3082	308.215 {1	In2306	ppm	216.5	0.0248	0.0115	216.4	216.5
As1890	189.042 {4	Y_2243	ppm	1.16	0.0043	0.3748	1.157	1.163
B_2496	249.678 {1	Y_3710	ppm	0.1246	0.0025	1.975	0.1228	0.1263
Ba4554	455.403 {	Y_3710	ppm	2.022	0.037	1.832	2.048	1.995
Be3130	313.042 {1	Y_3710	ppm	0.0126	0	0.3079	0.0126	0.0126
Ca3158	315.887 {1	In2306	ppm	2063	4.952	0.2401	2059	2066
Ca3181	318.128 {1	In2306	ppm	1725	10.98	0.6368	1717	1732
Cd2288	228.802 {4	Y_2243	ppm	0.2313	0.01	4.336	0.2242	0.2384
Co2286	228.616 {4	In2306	ppm	0.1461	0.001	0.6862	0.1454	0.1468
Cr2677	267.716 {1	Y_3600	ppm	0.2524	0.0007	0.2745	0.2529	0.2519
Cu3247	324.754 {1	Y_3600	ppm	3.305	0.0112	0.338	3.297	3.313
Fe2404	240.488 {1	In2306	ppm	435.8	3.083	0.7075	438	433.6
K_7664	766.490 {	Y_3710	ppm	21.18	0.0885	0.4176	21.12	21.25
K_7698	769.896 {	Y_3710	ppm	22.24	0.1375	0.6185	22.14	22.33
Li6707	670.784 {	Y_3710	ppm	0.1547	0.0002	0.1103	0.1549	0.1546
Mg2790	279.079 {1	Y_3710	ppm	26.77	0.2276	0.8502	26.61	26.94
Mn2576	257.610 {1	Y_3600	ppm	8.67	0.0748	0.8623	8.723	8.617
Mn2576-2	257.610 {1	Y_3710	ppm	9.103	0.0034	0.037	9.101	9.105
Mo2020	202.030 {4	Y_2243	ppm	0.0253	0	0.0633	0.0253	0.0253
Na5895	589.592 {	Y_3710	ppm	2.6	0.0118	0.454	2.592	2.609
Na8183	818.326 {	Y_3710	ppm	4.112	0.0171	0.4161	4.1	4.124
Ni2316	231.604 {4	In2306	ppm	0.6211	0.0041	0.6637	0.6182	0.624
P_1782	178.284 {4	In2306	ppm	13.09	0.0309	0.2359	13.06	13.11
Pb2203	220.353 {4	In2306	ppm	111.8	0.8806	0.7877	111.2	112.4
S_1820	182.034 {4	Y_2243	ppm	-6652	59.2	0.89	-6611	-6694
Sb2068	206.833 {4	Y_2243	ppm	0.5882	0.0077	1.304	0.5828	0.5936
Se1960	196.090 {4	Y_2243	ppm	0.0834	0.0004	0.456	0.0831	0.0837
Si2516	251.611 {1	Y_3710	ppm	9.438	0.0729	0.7719	9.387	9.49
Sn1899	189.989 {4	In2306	ppm	1.274	0.0078	0.6086	1.269	1.28
Sr4215	421.552 {	Y_3710	ppm	5.785	0.0362	0.6255	5.759	5.81
Ti3349	334.904 {1	Y_3600	ppm	0.2922	0.0005	0.1773	0.2918	0.2925
Tl1908	190.856 {4	In2306	ppm	0.0102	0.0047	46.51	0.0068	0.0135
V_2924	292.402 {1	Y_3600	ppm	0.593	0.0025	0.4164	0.5948	0.5913
Zn2062	206.200 {4	In2306	ppm	1.337	0.0064	0.477	1.332	1.341

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	925.89	4.939	0.53343	922.4	929.38
In2306	230.606 {4	Cts/S	12941	110.42	0.85324	13019	12863
Y_2243	224.306 {4	Cts/S	19933	159.85	0.80194	20046	19820
Y_3600	360.073 {	Cts/S	186680	128.28	0.06872	186780	186590

Y_3710	371.030 {	ş	Cts/S	63680	24.779	0.03891	63662	63697

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-a-10-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:10:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0022	0.0001	3.102	0.0022	0.0021
Al3082	308.215 {1	In2306	ppm	281.2	1.638	0.5825	280	282.3
As1890	189.042 {4	Y_2243	ppm	1.005	0.0098	0.9728	0.9983	1.012
B_2496	249.678 {1	Y_3710	ppm	0.1101	0.0006	0.5867	0.1105	0.1096
Ba4554	455.403 {	ĩ	Y_3710	ppm	2.243	0.0116	0.5183	2.251	2.235
Be3130	313.042 {1	Y_3710	ppm	0.0145	0	0.3222	0.0145	0.0145
Ca3158	315.887 {1	In2306	ppm	2699	31.94	1.183	2722	2677
Ca3181	318.128 {1	In2306	ppm	2267	1.161	0.0512	2267	2268
Cd2288	228.802 {4	Y_2243	ppm	0.5511	0.0015	0.2777	0.5521	0.55
Co2286	228.616 {4	In2306	ppm	0.1526	0.0006	0.3921	0.1522	0.153
Cr2677	267.716 {1	Y_3600	ppm	0.3146	0.0031	0.9985	0.3124	0.3169
Cu3247	324.754 {1	Y_3600	ppm	1.246	0.0102	0.8156	1.239	1.254
Fe2404	240.488 {1	In2306	ppm	360.5	0.2444	0.0678	360.7	360.3
K_7664	766.490 {	⁄	Y_3710	ppm	26.91	0.2496	0.9277	26.73	27.09
K_7698	769.896 {	⁄	Y_3710	ppm	28.18	0.3691	1.31	27.92	28.44
Li6707	670.784 {	ş	Y_3710	ppm	0.1816	0.0027	1.499	0.1797	0.1836
Mg2790	279.079 {1	Y_3710	ppm	37.22	0.125	0.3358	37.31	37.13
Mn2576	257.610 {1	Y_3600	ppm	11.01	0.0243	0.2203	10.99	11.03
Mn2576-2	257.610 {1	Y_3710	ppm	11.43	0.0035	0.0309	11.43	11.43
Mo2020	202.030 {4	Y_2243	ppm	0.0221	0.0002	0.8123	0.0223	0.022
Na5895	589.592 {	ş	Y_3710	ppm	6.22	0.0907	1.458	6.156	6.284
Na8183	818.326 {	⁄	Y_3710	ppm	7.271	0.1632	2.244	7.156	7.386
Ni2316	231.604 {4	In2306	ppm	0.6187	0.0029	0.4643	0.6166	0.6207
P_1782	178.284 {4	In2306	ppm	16.63	0.0387	0.233	16.6	16.66
Pb2203	220.353 {4	In2306	ppm	344	3.041	0.8839	341.9	346.2
S_1820	182.034 {4	Y_2243	ppm	-1508	37.85	2.51	-1482	-1535
Sb2068	206.833 {4	Y_2243	ppm	0.7574	0.0024	0.3163	0.7591	0.7557
Se1960	196.090 {4	Y_2243	ppm	0.0526	0.0062	11.7	0.0482	0.0569
Si2516	251.611 {1	Y_3710	ppm	11.5	0.0286	0.249	11.48	11.52
Sn1899	189.989 {4	In2306	ppm	0.7949	0.0057	0.7189	0.7909	0.7989
Sr4215	421.552 {	ε	Y_3710	ppm	6.232	0.0085	0.1371	6.238	6.226
Ti3349	334.904 {1	Y_3600	ppm	0.2838	0.0041	1.461	0.2809	0.2868
Tl1908	190.856 {4	In2306	ppm	-0.0124	0.0007	5.541	-0.0129	-0.0119
V_2924	292.402 {1	Y_3600	ppm	0.8084	0.0122	1.507	0.7998	0.8171
Zn2062	206.200 {4	In2306	ppm	1.544	0.007	0.4534	1.539	1.549

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	912.27	5.4849	0.60124	908.39	916.15
In2306	230.606 {4	Cts/S	12339	35.408	0.28696	12364	12314
Y_2243	224.306 {4	Cts/S	19948	60.708	0.30434	19991	19905
Y_3600	360.073 {	ş	Cts/S	185440	1111.7	0.59946	186230	184660

Y_3710	371.030 { ⁹	Cts/S	65445	279.1	0.42647	65248	65642	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-a-11-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:13:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0026	0.0001	3.682	-0.0027	-0.0026
Al3082	308.215 {1	In2306	ppm	292.2	7.615	2.606	286.9	297.6
As1890	189.042 {4	Y_2243	ppm	0.1965	0.0015	0.7753	0.1954	0.1976
B_2496	249.678 {1	Y_3710	ppm	0.0992	0.0013	1.348	0.1001	0.0982
Ba4554	455.403 { ⁷	Y_3710	ppm	2.038	0.0114	0.5613	2.03	2.046
Be3130	313.042 {1	Y_3710	ppm	0.0153	0.0004	2.424	0.015	0.0155
Ca3158	315.887 {1	In2306	ppm	1977	37.29	1.886	1951	2004
Ca3181	318.128 {1	In2306	ppm	1609	51.74	3.215	1573	1646
Cd2288	228.802 {4	Y_2243	ppm	0.0203	0.0028	14.02	0.0183	0.0223
Co2286	228.616 {4	In2306	ppm	0.1563	0.0001	0.0693	0.1562	0.1564
Cr2677	267.716 {1	Y_3600	ppm	0.3137	0.001	0.3048	0.3143	0.313
Cu3247	324.754 {1	Y_3600	ppm	0.3527	0.0012	0.3332	0.3535	0.3519
Fe2404	240.488 {1	In2306	ppm	273.9	6.458	2.358	269.3	278.4
K_7664	766.490 { ⁴	Y_3710	ppm	22.89	0.4536	1.981	22.57	23.21
K_7698	769.896 { ⁴	Y_3710	ppm	23.91	0.4469	1.869	23.59	24.22
Li6707	670.784 { ⁸	Y_3710	ppm	0.1619	0.0016	0.9677	0.1608	0.163
Mg2790	279.079 {1	Y_3710	ppm	34.74	0.669	1.926	34.26	35.21
Mn2576	257.610 {1	Y_3600	ppm	11.4	0.0754	0.6609	11.46	11.35
Mn2576-2	257.610 {1	Y_3710	ppm	11.95	0.1909	1.597	11.81	12.08
Mo2020	202.030 {4	Y_2243	ppm	0.0108	0.0003	2.505	0.0106	0.011
Na5895	589.592 { ⁸	Y_3710	ppm	1.693	0.0432	2.554	1.662	1.723
Na8183	818.326 { ⁴	Y_3710	ppm	2.582	0.1186	4.592	2.666	2.498
Ni2316	231.604 {4	In2306	ppm	0.477	0.0027	0.5742	0.475	0.4789
P_1782	178.284 {4	In2306	ppm	11.22	0.0236	0.2108	11.2	11.24
Pb2203	220.353 {4	In2306	ppm	^ *****	-----	-----	4.004	^ -----
S_1820	182.034 {4	Y_2243	ppm	-585.7	6.984	1.192	-580.7	-590.6
Sb2068	206.833 {4	Y_2243	ppm	0.007	0.0054	76.72	0.0032	0.0108
Se1960	196.090 {4	Y_2243	ppm	0.0145	0.0006	4.042	0.0149	0.0141
Si2516	251.611 {1	Y_3710	ppm	11.66	0.2857	2.45	11.46	11.86
Sn1899	189.989 {4	In2306	ppm	0.0686	0.0039	5.665	0.0659	0.0714
Sr4215	421.552 { ⁸	Y_3710	ppm	4.529	0.152	3.356	4.422	4.637
Ti3349	334.904 {1	Y_3600	ppm	0.2891	0.0003	0.0914	0.2893	0.2889
Tl1908	190.856 {4	In2306	ppm	-0.0131	0.0006	4.783	-0.0135	-0.0126
V_2924	292.402 {1	Y_3600	ppm	0.8314	0.0012	0.1442	0.8323	0.8306
Zn2062	206.200 {4	In2306	ppm	1.088	0.0016	0.1502	1.087	1.089

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	938.65	13.221	1.4085	948	929.3
In2306	230.606 {4	Cts/S	13113	49.514	0.37761	13148	13078
Y_2243	224.306 {4	Cts/S	20821	97.401	0.4678	20890	20752
Y_3600	360.073 { ⁹	Cts/S	190470	157.16	0.08251	190360	190580

Y_3710	371.030 {	Cts/S	65972	722.74	1.0955	66483	65460	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60819-a-12-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:16:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0036	0.0002	5.203	-0.0034	-0.0037
Al3082	308.215 {1	In2306	ppm	354.8	14.28	4.025	364.9	344.7
As1890	189.042 {4	Y_2243	ppm	0.2431	0.0057	2.351	0.2391	0.2471
B_2496	249.678 {1	Y_3710	ppm	0.1069	0.0063	5.862	0.1113	0.1025
Ba4554	455.403 {	Y_3710	ppm	2.157	0.066	3.06	2.204	2.111
Be3130	313.042 {1	Y_3710	ppm	0.0181	0.0006	3.264	0.0185	0.0177
Ca3158	315.887 {1	In2306	ppm	2081	61.8	2.969	2125	2038
Ca3181	318.128 {1	In2306	ppm	1767	26.7	1.511	1786	1748
Cd2288	228.802 {4	Y_2243	ppm	0.0164	0.0001	0.8182	0.0163	0.0165
Co2286	228.616 {4	In2306	ppm	0.1563	0.0006	0.4053	0.1568	0.1559
Cr2677	267.716 {1	Y_3600	ppm	0.3684	0.0062	1.68	0.3641	0.3728
Cu3247	324.754 {1	Y_3600	ppm	0.4205	0.0034	0.8066	0.4181	0.4229
Fe2404	240.488 {1	In2306	ppm	356.3	15.66	4.396	367.3	345.2
K_7664	766.490 {	Y_3710	ppm	24.34	0.7141	2.934	24.84	23.83
K_7698	769.896 {	Y_3710	ppm	25.36	0.863	3.404	25.97	24.75
Li6707	670.784 {	Y_3710	ppm	0.1971	0.0051	2.58	0.2007	0.1935
Mg2790	279.079 {1	Y_3710	ppm	41.17	1.474	3.58	42.21	40.13
Mn2576	257.610 {1	Y_3600	ppm	11.04	0.2372	2.149	10.87	11.21
Mn2576-2	257.610 {1	Y_3710	ppm	11.7	0.3507	2.997	11.95	11.46
Mo2020	202.030 {4	Y_2243	ppm	0.0134	0	0.1813	0.0134	0.0134
Na5895	589.592 {	Y_3710	ppm	2.346	0.0723	3.082	2.397	2.295
Na8183	818.326 {	Y_3710	ppm	3.479	0.0557	1.6	3.518	3.439
Ni2316	231.604 {4	In2306	ppm	0.5616	0.0057	1.014	0.5656	0.5576
P_1782	178.284 {4	In2306	ppm	14.24	0.1001	0.7031	14.31	14.17
Pb2203	220.353 {4	In2306	ppm	5.56	0.0658	1.184	5.514	5.607
S_1820	182.034 {4	Y_2243	ppm	-640.2	0.5269	0.0823	-639.8	-640.6
Sb2068	206.833 {4	Y_2243	ppm	0.0054	0.0034	62.92	0.0079	0.003
Se1960	196.090 {4	Y_2243	ppm	0.0113	0.0007	5.748	0.0118	0.0109
Si2516	251.611 {1	Y_3710	ppm	10.11	0.3692	3.651	10.37	9.851
Sn1899	189.989 {4	In2306	ppm	0.0908	0.0005	0.5869	0.0912	0.0904
Sr4215	421.552 {	Y_3710	ppm	5.044	0.0475	0.942	5.077	5.01
Ti3349	334.904 {1	Y_3600	ppm	0.2838	0.0052	1.819	0.2802	0.2875
Tl1908	190.856 {4	In2306	ppm	-0.0157	0.0019	12.43	-0.0143	-0.017
V_2924	292.402 {1	Y_3600	ppm	1.057	0.0135	1.28	1.048	1.067
Zn2062	206.200 {4	In2306	ppm	1.256	0.0112	0.8939	1.264	1.248

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	917.39	32.319	3.5229	894.54	940.24
In2306	230.606 {4	Cts/S	12929	6.4619	0.04998	12925	12934
Y_2243	224.306 {4	Cts/S	20957	32.454	0.15486	20980	20934
Y_3600	360.073 {	Cts/S	192570	1222.1	0.63463	193430	191700

Y_3710	371.030 {	Cts/S	66171	1749.6	2.644	64934	67408	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=PDS 600-60698-b-8-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:18:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5074	0.0019	0.3781	0.5061	0.5088
Al3082	308.215 {1	In2306	ppm	254.4	0.1652	0.0649	254.3	254.5
As1890	189.042 {4	Y_2243	ppm	1.031	0.0169	1.642	1.043	1.019
B_2496	249.678 {1	Y_3710	ppm	0.9081	0.0011	0.1174	0.9073	0.9088
Ba4554	455.403 {	Y_3710	ppm	1.492	0.004	0.266	1.489	1.495
Be3130	313.042 {1	Y_3710	ppm	0.4521	0.0001	0.0198	0.4521	0.452
Ca3158	315.887 {1	In2306	ppm	92.27	0.0061	0.0066	92.26	92.27
Ca3181	318.128 {1	In2306	ppm	72.2	0.0421	0.0583	72.23	72.17
Cd2288	228.802 {4	Y_2243	ppm	0.4715	0.0065	1.377	0.4761	0.4669
Co2286	228.616 {4	In2306	ppm	1.016	0.0131	1.289	1.026	1.007
Cr2677	267.716 {1	Y_3600	ppm	1.063	0.0094	0.8803	1.07	1.057
Cu3247	324.754 {1	Y_3600	ppm	1.115	0.0011	0.0993	1.116	1.114
Fe2404	240.488 {1	In2306	ppm	250	0.3352	0.1341	249.8	250.3
K_7664	766.490 {	Y_3710	ppm	26.34	0.0536	0.2034	26.3	26.38
K_7698	769.896 {	Y_3710	ppm	27.57	0.161	0.5838	27.46	27.69
Li6707	670.784 {	Y_3710	ppm	1.151	0.0062	0.5365	1.146	1.155
Mg2790	279.079 {1	Y_3710	ppm	77.66	0.1146	0.1476	77.74	77.58
Mn2576	257.610 {1	Y_3600	ppm	1.958	0.0035	0.1811	1.96	1.955
Mn2576-2	257.610 {1	Y_3710	ppm	1.937	0.0009	0.0459	1.936	1.937
Mo2020	202.030 {4	Y_2243	ppm	1.023	0.0147	1.433	1.033	1.012
Na5895	589.592 {	Y_3710	ppm	25.87	0.0947	0.3662	25.8	25.94
Na8183	818.326 {	Y_3710	ppm	27.28	0.0292	0.107	27.3	27.26
Ni2316	231.604 {4	In2306	ppm	1.085	0.0165	1.522	1.097	1.074
P_1782	178.284 {4	In2306	ppm	1.669	0.0244	1.46	1.686	1.652
Pb2203	220.353 {4	In2306	ppm	1.164	0.0116	0.9954	1.173	1.156
S_1820	182.034 {4	Y_2243	ppm	-67.85	0.5927	0.8736	-68.27	-67.43
Sb2068	206.833 {4	Y_2243	ppm	0.9133	0.0166	1.812	0.925	0.9016
Se1960	196.090 {4	Y_2243	ppm	1.008	0.0116	1.149	1.016	0.9998
Si2516	251.611 {1	Y_3710	ppm	7.081	0.0058	0.0821	7.076	7.085
Sn1899	189.989 {4	In2306	ppm	1.088	0.015	1.38	1.099	1.078
Sr4215	421.552 {	Y_3710	ppm	1.24	0.0019	0.1534	1.239	1.241
Ti3349	334.904 {1	Y_3600	ppm	1.044	0.0012	0.1106	1.045	1.043
Tl1908	190.856 {4	In2306	ppm	0.5572	0.0699	12.54	0.6066	0.5078
V_2924	292.402 {1	Y_3600	ppm	1.142	0.006	0.5221	1.146	1.138
Zn2062	206.200 {4	In2306	ppm	1.388	0.0147	1.062	1.398	1.377

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1011.7	3.2534	0.32156	1009.4	1014
In2306	230.606 {4	Cts/S	15498	202.31	1.3054	15355	15641
Y_2243	224.306 {4	Cts/S	21465	277.56	1.2931	21269	21661
Y_3600	360.073 {	Cts/S	201620	199.29	0.09885	201480	201760

Y_3710 371.030 { ⁹ Cts/S 65993 158.21 0.23974 65881 66105

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=SD 600-60698-b-8-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:21:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	s -.0003	0.0004	110.8	-0.0001	s -.0006
Al3082	308.215 {1	In2306	ppm	k 47.72	0.0772	0.1618	47.77	k 47.66
As1890	189.042 {4	Y_2243	ppm	k .0083	0.0001	1.382	0.0083	k .0084
B_2496	249.678 {1	Y_3710	ppm	0.055	0.0041	7.54	0.0579	0.0521
Ba4554	455.403 { ⁷	Y_3710	ppm	0.1264	0.0002	0.1386	0.1263	0.1265
Be3130	313.042 {1	Y_3710	ppm	k .0037	0.0001	1.887	0.0037	k .0036
Ca3158	315.887 {1	In2306	ppm	16.14	0.0919	0.5695	16.2	16.07
Ca3181	318.128 {1	In2306	ppm	k 12.77	0.0652	0.511	12.72	k 12.81
Cd2288	228.802 {4	Y_2243	ppm	k .0006	0.0004	73.99	0.0003	k .0009
Co2286	228.616 {4	In2306	ppm	k .0130	0.001	7.348	0.0123	k .0136
Cr2677	267.716 {1	Y_3600	ppm	s .0401	0.0047	11.74	0.0368	s .0435
Cu3247	324.754 {1	Y_3600	ppm	s .0353	0.006	16.93	0.0311	s .0396
Fe2404	240.488 {1	In2306	ppm	49.38	0.0014	0.0029	49.38	49.38
K_7664	766.490 { ⁴	Y_3710	ppm	3.887	0.009	0.2307	3.894	3.881
K_7698	769.896 { ⁴	Y_3710	ppm	4.079	0.0504	1.237	4.115	4.044
Li6707	670.784 { ⁸	Y_3710	ppm	0.044	0	0.0688	0.0439	0.044
Mg2790	279.079 {1	Y_3710	ppm	15.29	0.1244	0.8136	15.21	15.38
Mn2576	257.610 {1	Y_3600	ppm	s .1956	0.023	11.76	0.1793	s .2118
Mn2576-2	257.610 {1	Y_3710	ppm	0.1893	0.0008	0.4128	0.1887	0.1898
Mo2020	202.030 {4	Y_2243	ppm	0.0035	0.0018	50.91	0.0022	0.0048
Na5895	589.592 { ⁸	Y_3710	ppm	3.601	0.0073	0.2037	3.596	3.606
Na8183	818.326 { ⁴	Y_3710	ppm	3.762	0.0294	0.7803	3.741	3.782
Ni2316	231.604 {4	In2306	ppm	k .0400	0.0013	3.376	0.039	k .0409
P_1782	178.284 {4	In2306	ppm	0.1124	0.0013	1.113	0.1115	0.1133
Pb2203	220.353 {4	In2306	ppm	k .0393	0.0053	13.42	0.0355	k .0430
S_1820	182.034 {4	Y_2243	ppm	-14.03	0.1659	1.183	-13.91	-14.14
Sb2068	206.833 {4	Y_2243	ppm	k .0070	0.0005	6.996	0.0066	k .0073
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0.0008	150.1	-0.0011	0
Si2516	251.611 {1	Y_3710	ppm	1.395	0.0057	0.4085	1.391	1.399
Sn1899	189.989 {4	In2306	ppm	0.0097	0.0015	15.64	0.0087	0.0108
Sr4215	421.552 { ⁸	Y_3710	ppm	0.1622	0.0001	0.049	0.1623	0.1622
Ti3349	334.904 {1	Y_3600	ppm	s .0471	0.0056	11.83	0.0431	s .0510
Tl1908	190.856 {4	In2306	ppm	k .1108	0.0122	11.04	0.1022	k .1195
V_2924	292.402 {1	Y_3600	ppm	s .0718	0.0087	12.07	0.0657	s .0780
Zn2062	206.200 {4	In2306	ppm	k .0871	0.0011	1.243	0.0863	k .0879

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1067.9	2.4383	0.22832	1069.7	1066.2
In2306	230.606 {4	Cts/S	18212	92.643	0.50868	18278	18147
Y_2243	224.306 {4	Cts/S	21717	101.94	0.46938	21789	21645
Y_3600	360.073 { ⁹	Cts/S	^ *****	-----	-----	210660	^-----

Y_3710	371.030 {	Cts/S	62514	427.68	0.68414	62816	62211	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=mb 600-87864/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:23:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0	8.585	0.0004	0.0003
Al3082	308.215 {1	In2306	ppm	-0.0104	0.0021	20.17	-0.0089	-0.0119
As1890	189.042 {4	Y_2243	ppm	-0.001	0.0005	46.5	-0.0013	-0.0007
B_2496	249.678 {1	Y_3710	ppm	0.0449	0.001	2.275	0.0442	0.0456
Ba4554	455.403 {	Y_3710	ppm	0.0012	0.0001	6.726	0.0011	0.0013
Be3130	313.042 {1	Y_3710	ppm	0	0	387.3	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0024	0.0072	300.6	-0.0075	0.0027
Ca3181	318.128 {1	In2306	ppm	0.0336	0.0138	41.04	0.0434	0.0239
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	13.29	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	93.19	0	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0	0	135.2	-0.0001	0
Cu3247	324.754 {1	Y_3600	ppm	0.0083	0.0001	1.336	0.0082	0.0084
Fe2404	240.488 {1	In2306	ppm	0.0105	0.0051	48.37	0.0141	0.0069
K_7664	766.490 {	Y_3710	ppm	0.0899	0.0095	10.53	0.0966	0.0832
K_7698	769.896 {	Y_3710	ppm	0.0959	0.0518	54.04	0.1326	0.0593
Li6707	670.784 {	Y_3710	ppm	-0.0005	0.0001	19.64	-0.0005	-0.0006
Mg2790	279.079 {1	Y_3710	ppm	-0.0063	0.0042	66.39	-0.0092	-0.0033
Mn2576	257.610 {1	Y_3600	ppm	0.0001	0.0001	171.5	0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.0005	214.6	-0.0001	0.0006
Mo2020	202.030 {4	Y_2243	ppm	0.0003	0.0002	75.39	0.0001	0.0004
Na5895	589.592 {	Y_3710	ppm	-0.0014	0.0029	210.6	-0.0034	0.0007
Na8183	818.326 {	Y_3710	ppm	-0.0107	0.0234	218.6	0.0059	-0.0273
Ni2316	231.604 {4	In2306	ppm	0.0004	0.0003	66.62	0.0002	0.0006
P_1782	178.284 {4	In2306	ppm	-0.002	0.0016	82.74	-0.0031	-0.0008
Pb2203	220.353 {4	In2306	ppm	0.0008	0.0005	70.37	0.0004	0.0012
S_1820	182.034 {4	Y_2243	ppm	-0.5701	0.1232	21.6	-0.6572	-0.483
Sb2068	206.833 {4	Y_2243	ppm	0.0035	0.0012	33.15	0.0027	0.0043
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0009	934.3	-0.0006	0.0008
Si2516	251.611 {1	Y_3710	ppm	0.0081	0.007	85.69	0.0032	0.013
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0004	586.8	0.0002	-0.0004
Sr4215	421.552 {	Y_3710	ppm	0	0	3.803	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0002	204.7	0	-0.0002
Tl1908	190.856 {4	In2306	ppm	0.0583	0.0063	10.79	0.0538	0.0627
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0002	121.6	0	-0.0003
Zn2062	206.200 {4	In2306	ppm	0.0047	0.0002	3.53	0.0046	0.0049

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1105.4	1.2003	0.10859	1104.5	1106.2
In2306	230.606 {4	Cts/S	19850	16.173	0.08148	19839	19861
Y_2243	224.306 {4	Cts/S	21620	43.175	0.1997	21590	21651
Y_3600	360.073 {	Cts/S	205080	127.94	0.06239	205170	204990

Y_3710	371.030 {	Cts/S	63035	206.68	0.32788	62888	63181

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=lcs 600-87864/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:25:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5744	0.0016	0.2871	0.5755	0.5732
Al3082	308.215 {1	In2306	ppm	10.38	0.0503	0.4849	10.35	10.42
As1890	189.042 {4	Y_2243	ppm	1.131	0.007	0.6206	1.136	1.126
B_2496	249.678 {1	Y_3710	ppm	1.035	0.0068	0.6544	1.03	1.039
Ba4554	455.403 {	Y_3710	ppm	1.056	0.0034	0.3185	1.054	1.059
Be3130	313.042 {1	Y_3710	ppm	0.5137	0	0.0068	0.5137	0.5136
Ca3158	315.887 {1	In2306	ppm	12.8	0.0373	0.2914	12.77	12.82
Ca3181	318.128 {1	In2306	ppm	10.14	0.0126	0.1247	10.13	10.14
Cd2288	228.802 {4	Y_2243	ppm	0.5348	0.0021	0.3948	0.5363	0.5333
Co2286	228.616 {4	In2306	ppm	0.9795	0.0039	0.3971	0.9823	0.9768
Cr2677	267.716 {1	Y_3600	ppm	1.041	0.0005	0.0505	1.042	1.041
Cu3247	324.754 {1	Y_3600	ppm	1.129	0.003	0.2646	1.131	1.127
Fe2404	240.488 {1	In2306	ppm	10.49	0.0696	0.6635	10.45	10.54
K_7664	766.490 {	Y_3710	ppm	10.11	0.0548	0.5421	10.07	10.15
K_7698	769.896 {	Y_3710	ppm	10.72	0.0279	0.2602	10.7	10.74
Li6707	670.784 {	Y_3710	ppm	0.547	0.0029	0.5358	0.5449	0.5491
Mg2790	279.079 {1	Y_3710	ppm	9.74	0.0489	0.5019	9.774	9.705
Mn2576	257.610 {1	Y_3600	ppm	1.299	0.0014	0.1084	1.3	1.298
Mn2576-2	257.610 {1	Y_3710	ppm	1.29	0.0069	0.5313	1.295	1.285
Mo2020	202.030 {4	Y_2243	ppm	1.229	0.0087	0.7103	1.235	1.222
Na5895	589.592 {	Y_3710	ppm	10.58	0.0203	0.1922	10.56	10.59
Na8183	818.326 {	Y_3710	ppm	10.62	0.0544	0.5126	10.66	10.58
Ni2316	231.604 {4	In2306	ppm	0.904	0.0043	0.4769	0.9071	0.901
P_1782	178.284 {4	In2306	ppm	-0.0015	0.001	68.16	-0.0008	-0.0022
Pb2203	220.353 {4	In2306	ppm	1.04	0.0052	0.5046	1.043	1.036
S_1820	182.034 {4	Y_2243	ppm	-0.3296	0.0153	4.644	-0.3404	-0.3188
Sb2068	206.833 {4	Y_2243	ppm	1.077	0.0072	0.6645	1.082	1.072
Se1960	196.090 {4	Y_2243	ppm	1.176	0.0067	0.5707	1.181	1.171
Si2516	251.611 {1	Y_3710	ppm	0.8967	0.0098	1.096	0.8898	0.9037
Sn1899	189.989 {4	In2306	ppm	1.08	0.0077	0.7103	1.085	1.075
Sr4215	421.552 {	Y_3710	ppm	0.5693	0.0005	0.0822	0.5696	0.5689
Ti3349	334.904 {1	Y_3600	ppm	0.9852	0.0044	0.4435	0.9883	0.9821
Tl1908	190.856 {4	In2306	ppm	0.5885	0.0688	11.7	0.6372	0.5398
V_2924	292.402 {1	Y_3600	ppm	0.9778	0.004	0.4134	0.9807	0.9749
Zn2062	206.200 {4	In2306	ppm	0.9553	0.0041	0.4259	0.9582	0.9524

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1084	4.3784	0.4039	1087.1	1080.9
In2306	230.606 {4	Cts/S	18446	29.615	0.16055	18426	18467
Y_2243	224.306 {4	Cts/S	21279	50.83	0.23887	21243	21315
Y_3600	360.073 {	Cts/S	199340	164.65	0.0826	199220	199460

Y_3710	371.030 {	Cts/S	62540	48.698	0.07787	62506	62575	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:28:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2821	0.0326	11.56	0.3051	0.259
Al3082	308.215 {1	In2306	ppm	2.335	0.151	6.466	2.442	2.228
As1890	189.042 {4	Y_2243	ppm	0.5287	0.006	1.133	0.533	0.5245
B_2496	249.678 {1	Y_3710	ppm	0.4965	0.0208	4.198	0.5112	0.4817
Ba4554	455.403 {	Y_3710	ppm	0.4727	0.0253	5.348	0.4906	0.4549
Be3130	313.042 {1	Y_3710	ppm	0.4619	0.0241	5.222	0.4789	0.4448
Ca3158	315.887 {1	In2306	ppm	14.44	0.662	4.585	14.91	13.97
Ca3181	318.128 {1	In2306	ppm	11.47	0.5269	4.593	11.85	11.1
Cd2288	228.802 {4	Y_2243	ppm	0.4972	0.0095	1.918	0.5039	0.4904
Co2286	228.616 {4	In2306	ppm	0.4539	0.0088	1.93	0.4601	0.4477
Cr2677	267.716 {1	Y_3600	ppm	0.5236	0.065	12.41	0.5696	0.4776
Cu3247	324.754 {1	Y_3600	ppm	0.5511	0.0644	11.69	0.5967	0.5056
Fe2404	240.488 {1	In2306	ppm	2.376	0.1303	5.484	2.468	2.284
K_7664	766.490 {	Y_3710	ppm	11.41	0.533	4.669	11.79	11.04
K_7698	769.896 {	Y_3710	ppm	12	0.5553	4.627	12.4	11.61
Li6707	670.784 {	Y_3710	ppm	0.4914	0.027	5.487	0.5105	0.4724
Mg2790	279.079 {1	Y_3710	ppm	4.401	0.2083	4.732	4.548	4.254
Mn2576	257.610 {1	Y_3600	ppm	0.6424	0.074	11.53	0.6948	0.5901
Mn2576-2	257.610 {1	Y_3710	ppm	0.5842	0.0299	5.117	0.6053	0.563
Mo2020	202.030 {4	Y_2243	ppm	0.5697	0.0127	2.236	0.5787	0.5607
Na5895	589.592 {	Y_3710	ppm	11.92	0.598	5.018	12.34	11.49
Na8183	818.326 {	Y_3710	ppm	11.97	0.6737	5.63	12.44	11.49
Ni2316	231.604 {4	In2306	ppm	0.4219	0.0085	2.004	0.4278	0.4159
P_1782	178.284 {4	In2306	ppm	0.4725	0.0096	2.038	0.4793	0.4657
Pb2203	220.353 {4	In2306	ppm	0.4851	0.007	1.453	0.4901	0.4801
S_1820	182.034 {4	Y_2243	ppm	-177.6	3.578	2.014	-180.2	-175.1
Sb2068	206.833 {4	Y_2243	ppm	0.5001	0.0132	2.632	0.5095	0.4908
Se1960	196.090 {4	Y_2243	ppm	0.5441	0.0135	2.49	0.5537	0.5346
Si2516	251.611 {1	Y_3710	ppm	0.8033	0.0324	4.028	0.8262	0.7804
Sn1899	189.989 {4	In2306	ppm	0.5025	0.0099	1.971	0.5095	0.4955
Sr4215	421.552 {	Y_3710	ppm	0.2558	0.0137	5.347	0.2654	0.2461
Ti3349	334.904 {1	Y_3600	ppm	0.4888	0.0586	11.99	0.5302	0.4474
Tl1908	190.856 {4	In2306	ppm	0.4118	0.0206	5.014	0.4264	0.3972
V_2924	292.402 {1	Y_3600	ppm	0.4863	0.0588	12.09	0.5278	0.4447
Zn2062	206.200 {4	In2306	ppm	0.4464	0.0089	2.002	0.4527	0.44

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1124.8	41.425	3.6828	1095.5	1154.1
In2306	230.606 {4	Cts/S	18931	254.91	1.3465	18751	19112
Y_2243	224.306 {4	Cts/S	21668	292.51	1.35	21461	21875
Y_3600	360.073 {	Cts/S	194190	18611	9.5843	181030	207350

Y_3710	371.030 {	Cts/S	64795	2385.4	3.6814	63108	66482	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:30:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.006	0.0004	6.492	0.0057	0.0063
Al3082	308.215 {1	In2306	ppm	0.0925	0.0259	27.98	0.1108	0.0742
As1890	189.042 {4	Y_2243	ppm	0.0111	0.0006	5.533	0.0107	0.0115
B_2496	249.678 {1	Y_3710	ppm	0.0598	0.0072	12.13	0.0649	0.0547
Ba4554	455.403 {	Y_3710	ppm	0.0104	0.0012	11.09	0.0112	0.0096
Be3130	313.042 {1	Y_3710	ppm	0.0051	0.0006	11.82	0.0055	0.0047
Ca3158	315.887 {1	In2306	ppm	0.1277	0.0141	11.04	0.1377	0.1178
Ca3181	318.128 {1	In2306	ppm	0.1349	0.0349	25.9	0.1596	0.1102
Cd2288	228.802 {4	Y_2243	ppm	0.0057	0.0006	10.51	0.0053	0.0061
Co2286	228.616 {4	In2306	ppm	0.0096	0.0005	5.001	0.0093	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0102	0.0002	2.255	0.0103	0.01
Cu3247	324.754 {1	Y_3600	ppm	0.0186	0	0.1344	0.0186	0.0186
Fe2404	240.488 {1	In2306	ppm	0.1079	0.0112	10.36	0.1158	0.1
K_7664	766.490 {	Y_3710	ppm	0.6897	0.0592	8.585	0.7316	0.6478
K_7698	769.896 {	Y_3710	ppm	0.7214	0.1176	16.3	0.8045	0.6382
Li6707	670.784 {	Y_3710	ppm	0.0111	0.0016	14.13	0.0122	0.01
Mg2790	279.079 {1	Y_3710	ppm	0.0823	0.0252	30.64	0.1002	0.0645
Mn2576	257.610 {1	Y_3600	ppm	0.0126	0.0001	0.7216	0.0127	0.0125
Mn2576-2	257.610 {1	Y_3710	ppm	0.013	0.0014	10.59	0.014	0.012
Mo2020	202.030 {4	Y_2243	ppm	0.0144	0.0015	10.39	0.0133	0.0154
Na5895	589.592 {	Y_3710	ppm	0.6168	0.068	11.02	0.6648	0.5687
Na8183	818.326 {	Y_3710	ppm	0.667	0.0483	7.249	0.6328	0.7012
Ni2316	231.604 {4	In2306	ppm	0.0093	0.0006	6.873	0.0088	0.0097
P_1782	178.284 {4	In2306	ppm	0.006	0.0015	24.65	0.007	0.0049
Pb2203	220.353 {4	In2306	ppm	0.0111	0.0003	2.814	0.0113	0.0108
S_1820	182.034 {4	Y_2243	ppm	0.1613	0.2086	129.4	0.0138	0.3088
Sb2068	206.833 {4	Y_2243	ppm	0.0151	0.0019	12.51	0.0138	0.0165
Se1960	196.090 {4	Y_2243	ppm	0.0122	0.0007	5.483	0.0117	0.0126
Si2516	251.611 {1	Y_3710	ppm	0.0132	0.0019	14.16	0.0145	0.0119
Sn1899	189.989 {4	In2306	ppm	0.0108	0.0009	8.053	0.0102	0.0114
Sr4215	421.552 {	Y_3710	ppm	0.0057	0.0008	14.09	0.0063	0.0051
Ti3349	334.904 {1	Y_3600	ppm	0.0092	0.0001	1.161	0.0091	0.0093
Tl1908	190.856 {4	In2306	ppm	0.1517	0.0179	11.8	0.139	0.1644
V_2924	292.402 {1	Y_3600	ppm	0.0092	0.0002	2.244	0.0091	0.0094
Zn2062	206.200 {4	In2306	ppm	0.0093	0.0005	5.728	0.0089	0.0097

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1068.1	91.552	8.5711	1003.4	1132.9
In2306	230.606 {4	Cts/S	19666	107.68	0.54752	19743	19590
Y_2243	224.306 {4	Cts/S	21584	98.284	0.45537	21653	21514
Y_3600	360.073 {	Cts/S	205390	223.92	0.10902	205540	205230

Y_3710	371.030 {	Cts/S	60819	5024.3	8.2612	57266	64371	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:32:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0	22.75	0.0002	0.0002
Al3082	308.215 {1	In2306	ppm	-0.0092	0.001	10.82	-0.0085	-0.0099
As1890	189.042 {4	Y_2243	ppm	0.0001	0.0002	431.4	0.0002	-0.0001
B_2496	249.678 {1	Y_3710	ppm	0.0471	0.0014	2.966	0.0461	0.0481
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	20.96	-0.0002	-0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	130.1	0	0
Ca3158	315.887 {1	In2306	ppm	0.0026	0.0021	79.88	0.0011	0.004
Ca3181	318.128 {1	In2306	ppm	0.0147	0.0099	67.36	0.0217	0.0077
Cd2288	228.802 {4	Y_2243	ppm	0	0	4.478	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	128	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	-0.0001	0.0001	56.98	-0.0001	-0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0073	0	0.005	0.0073	0.0073
Fe2404	240.488 {1	In2306	ppm	0.0028	0.0005	18.33	0.0032	0.0024
K_7664	766.490 {	Y_3710	ppm	0.06	0.0244	40.74	0.0773	0.0427
K_7698	769.896 {	Y_3710	ppm	0.0823	0.0004	0.5385	0.0819	0.0826
Li6707	670.784 {	Y_3710	ppm	-0.0008	0.0006	77.03	-0.0003	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	-0.0193	0.0035	18.33	-0.0168	-0.0218
Mn2576	257.610 {1	Y_3600	ppm	-0.0002	0.0001	52.09	-0.0001	-0.0002
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0	7.196	0.0002	0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	70.1	0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	-0.0201	0.0054	26.99	-0.0239	-0.0163
Na8183	818.326 {	Y_3710	ppm	0.0548	0.0182	33.28	0.0419	0.0677
Ni2316	231.604 {4	In2306	ppm	0.0004	0.0002	41.56	0.0003	0.0005
P_1782	178.284 {4	In2306	ppm	-0.0023	0	0.1539	-0.0023	-0.0023
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0003	62.09	0.0003	0.0007
S_1820	182.034 {4	Y_2243	ppm	0.394	0.0197	5.002	0.4079	0.3801
Sb2068	206.833 {4	Y_2243	ppm	0.0033	0.0022	66.15	0.0017	0.0048
Se1960	196.090 {4	Y_2243	ppm	0.0003	0.0001	35.7	0.0003	0.0004
Si2516	251.611 {1	Y_3710	ppm	0.0029	0.0023	79.54	0.0046	0.0013
Sn1899	189.989 {4	In2306	ppm	0	0.0001	232.8	-0.0001	0
Sr4215	421.552 {	Y_3710	ppm	0	0	87.22	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0	4.48	-0.0002	-0.0002
Tl1908	190.856 {4	In2306	ppm	0.081	0.0128	15.86	0.0719	0.0901
V_2924	292.402 {1	Y_3600	ppm	0.0001	0	34.07	0.0001	0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	3.41	-0.0003	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1109.7	3.9172	0.353	1106.9	1112.4
In2306	230.606 {4	Cts/S	19920	156.34	0.78485	20030	19809
Y_2243	224.306 {4	Cts/S	21818	160.77	0.73688	21932	21704
Y_3600	360.073 {	Cts/S	206810	1292.9	0.62516	207720	205890

Y_3710	371.030 {	Cts/S	62972	113.6	0.1804	63052	62892	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60738-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:35:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0003	89.77	0.0005	0.0001
Al3082	308.215 {1	In2306	ppm	-0.0175	0.0129	73.72	-0.0267	-0.0084
As1890	189.042 {4	Y_2243	ppm	-0.0004	0.0003	64.35	-0.0006	-0.0002
B_2496	249.678 {1	Y_3710	ppm	0.0495	0.0021	4.197	0.0481	0.051
Ba4554	455.403 {	Y_3710	ppm	0.0012	0.0002	15.08	0.001	0.0013
Be3130	313.042 {1	Y_3710	ppm	0	0	108.2	0	0.0001
Ca3158	315.887 {1	In2306	ppm	1.542	0.0956	6.199	1.474	1.609
Ca3181	318.128 {1	In2306	ppm	1.245	0.1085	8.71	1.169	1.322
Cd2288	228.802 {4	Y_2243	ppm	0	0	477	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	114.4	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	-0.0002	0.0002	110	0	-0.0004
Cu3247	324.754 {1	Y_3600	ppm	0.0073	0.0002	2.551	0.0074	0.0072
Fe2404	240.488 {1	In2306	ppm	0.0785	0.0097	12.31	0.0716	0.0853
K_7664	766.490 {	Y_3710	ppm	8.41	0.6418	7.632	7.956	8.864
K_7698	769.896 {	Y_3710	ppm	8.927	0.7404	8.295	8.403	9.45
Li6707	670.784 {	Y_3710	ppm	-0.0004	0.0003	78.87	-0.0006	-0.0002
Mg2790	279.079 {1	Y_3710	ppm	0.0966	0.0045	4.613	0.0934	0.0997
Mn2576	257.610 {1	Y_3600	ppm	0.0025	0.0001	2.123	0.0025	0.0026
Mn2576-2	257.610 {1	Y_3710	ppm	0.0028	0.0004	15.62	0.0025	0.0032
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0002	237.1	-0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	38.79	3.054	7.872	36.63	40.95
Na8183	818.326 {	Y_3710	ppm	40.02	3.052	7.627	37.86	42.18
Ni2316	231.604 {4	In2306	ppm	0.0007	0.0003	41.32	0.0005	0.0009
P_1782	178.284 {4	In2306	ppm	0.1418	0.0016	1.095	0.1407	0.1429
Pb2203	220.353 {4	In2306	ppm	0.0011	0.0003	29.11	0.0009	0.0013
S_1820	182.034 {4	Y_2243	ppm	-696.9	1.792	0.2572	-698.1	-695.6
Sb2068	206.833 {4	Y_2243	ppm	0.0007	0.0016	225.3	-0.0004	0.0018
Se1960	196.090 {4	Y_2243	ppm	-0.0008	0.0007	81.04	-0.0004	-0.0013
Si2516	251.611 {1	Y_3710	ppm	0.0319	0.0035	10.96	0.0294	0.0344
Sn1899	189.989 {4	In2306	ppm	0	0.0004	966.8	0.0003	-0.0004
Sr4215	421.552 {	Y_3710	ppm	0.0073	0.0005	7.425	0.0069	0.0076
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0001	22.7	-0.0002	-0.0003
Tl1908	190.856 {4	In2306	ppm	0.0476	0.0061	12.85	0.0433	0.052
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0002	114.8	-0.0004	0
Zn2062	206.200 {4	In2306	ppm	0.0044	0	0.4549	0.0044	0.0044

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1046.8	64.42	6.1537	1092.4	1001.3
In2306	230.606 {4	Cts/S	18953	59.97	0.31642	18995	18910
Y_2243	224.306 {4	Cts/S	21579	66.305	0.30727	21625	21532
Y_3600	360.073 {	Cts/S	196200	1657.4	0.84477	197370	195020

Y_3710	371.030 { ⁹	Cts/S	59637	3333	5.5887	61994	57281	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=600-60739-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:37:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0001	24.93	0.0005	0.0003
Al3082	308.215 {1	In2306	ppm	-0.0218	0.0029	13.14	-0.0197	-0.0238
As1890	189.042 {4	Y_2243	ppm	-0.0008	0.0003	34.84	-0.001	-0.0006
B_2496	249.678 {1	Y_3710	ppm	0.0469	0.0021	4.452	0.0484	0.0454
Ba4554	455.403 { ⁷	Y_3710	ppm	0.001	0.0001	8.457	0.0009	0.001
Be3130	313.042 {1	Y_3710	ppm	0	0	81.85	0	0
Ca3158	315.887 {1	In2306	ppm	1.464	0.0094	0.6388	1.471	1.458
Ca3181	318.128 {1	In2306	ppm	1.186	0.008	0.6709	1.192	1.18
Cd2288	228.802 {4	Y_2243	ppm	0	0.0001	136.4	0	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	398.5	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0003	245.6	-0.0001	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0075	0	0.2333	0.0075	0.0074
Fe2404	240.488 {1	In2306	ppm	0.0712	0.0044	6.23	0.0681	0.0744
K_7664	766.490 { ⁴	Y_3710	ppm	7.702	0.017	0.2208	7.69	7.714
K_7698	769.896 { ⁴	Y_3710	ppm	8.133	0.0066	0.0816	8.128	8.138
Li6707	670.784 { ⁸	Y_3710	ppm	0.0002	0	15.97	0.0002	0.0002
Mg2790	279.079 {1	Y_3710	ppm	0.0936	0.0037	3.898	0.0962	0.0911
Mn2576	257.610 {1	Y_3600	ppm	0.0026	0.0001	4.468	0.0025	0.0027
Mn2576-2	257.610 {1	Y_3710	ppm	0.0023	0.0002	7.584	0.0022	0.0025
Mo2020	202.030 {4	Y_2243	ppm	0	0.0001	1728	0.0001	0
Na5895	589.592 { ⁸	Y_3710	ppm	37.33	0.1624	0.4351	37.21	37.44
Na8183	818.326 { ⁴	Y_3710	ppm	38.72	0.16	0.4133	38.6	38.83
Ni2316	231.604 {4	In2306	ppm	0.0006	0.0001	18.56	0.0007	0.0005
P_1782	178.284 {4	In2306	ppm	0.1424	0.0032	2.262	0.1447	0.1401
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0008	223.2	0.001	-0.0002
S_1820	182.034 {4	Y_2243	ppm	-710	17.28	2.434	-722.2	-697.8
Sb2068	206.833 {4	Y_2243	ppm	0.0016	0.001	62.86	0.0023	0.0009
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0.0003	50.39	-0.0004	-0.0008
Si2516	251.611 {1	Y_3710	ppm	0.049	0.0043	8.815	0.0459	0.0521
Sn1899	189.989 {4	In2306	ppm	-0.0003	0.0002	61.34	-0.0002	-0.0005
Sr4215	421.552 { ⁸	Y_3710	ppm	0.007	0	0.1563	0.007	0.007
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0001	45.56	-0.0002	-0.0003
Tl1908	190.856 {4	In2306	ppm	0.0309	0.0022	6.988	0.0294	0.0325
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	812	0.0001	0
Zn2062	206.200 {4	In2306	ppm	0.0041	0.0001	2.426	0.0042	0.0041

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1082.7	4.9543	0.4576	1079.2	1086.2
In2306	230.606 {4	Cts/S	18514	326.19	1.7619	18283	18744
Y_2243	224.306 {4	Cts/S	21058	393.06	1.8665	20780	21336
Y_3600	360.073 { ⁹	Cts/S	196990	1848.9	0.93857	195680	198300

Y_3710	371.030 {	Cts/S	61872	78.2	0.12639	61928	61817	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:39:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2711	0.001	0.3768	0.2704	0.2718
Al3082	308.215 {1	In2306	ppm	2.451	0.0493	2.011	2.486	2.416
As1890	189.042 {4	Y_2243	ppm	0.5495	0.0001	0.0204	0.5494	0.5495
B_2496	249.678 {1	Y_3710	ppm	0.5118	0.003	0.5817	0.5139	0.5097
Ba4554	455.403 {	Y_3710	ppm	0.4932	0.0026	0.5325	0.495	0.4913
Be3130	313.042 {1	Y_3710	ppm	0.4841	0.0017	0.3572	0.4853	0.4828
Ca3158	315.887 {1	In2306	ppm	15.03	0.2067	1.376	15.18	14.88
Ca3181	318.128 {1	In2306	ppm	11.95	0.1758	1.471	12.08	11.83
Cd2288	228.802 {4	Y_2243	ppm	0.5124	0.0041	0.8038	0.5153	0.5094
Co2286	228.616 {4	In2306	ppm	0.4681	0.0048	1.029	0.4715	0.4647
Cr2677	267.716 {1	Y_3600	ppm	0.5004	0.0028	0.5591	0.4984	0.5023
Cu3247	324.754 {1	Y_3600	ppm	0.5293	0.0013	0.2465	0.5283	0.5302
Fe2404	240.488 {1	In2306	ppm	2.469	0.0218	0.8809	2.485	2.454
K_7664	766.490 {	Y_3710	ppm	11.88	0.0673	0.5664	11.93	11.83
K_7698	769.896 {	Y_3710	ppm	12.54	0.0049	0.0387	12.54	12.53
Li6707	670.784 {	Y_3710	ppm	0.5092	0.0007	0.1418	0.5097	0.5087
Mg2790	279.079 {1	Y_3710	ppm	4.592	0.0033	0.0724	4.594	4.589
Mn2576	257.610 {1	Y_3600	ppm	0.6192	0.0029	0.4644	0.6172	0.6212
Mn2576-2	257.610 {1	Y_3710	ppm	0.6096	0.0005	0.0836	0.6092	0.61
Mo2020	202.030 {4	Y_2243	ppm	0.5863	0.0062	1.051	0.5907	0.582
Na5895	589.592 {	Y_3710	ppm	12.4	0.056	0.4512	12.44	12.36
Na8183	818.326 {	Y_3710	ppm	12.6	0.0943	0.7482	12.67	12.54
Ni2316	231.604 {4	In2306	ppm	0.4349	0.0044	1.018	0.438	0.4318
P_1782	178.284 {4	In2306	ppm	0.4906	0.0034	0.6899	0.493	0.4882
Pb2203	220.353 {4	In2306	ppm	0.4999	0.0064	1.274	0.5044	0.4954
S_1820	182.034 {4	Y_2243	ppm	-183.9	0.7692	0.4182	-184.5	-183.4
Sb2068	206.833 {4	Y_2243	ppm	0.5152	0.0066	1.282	0.5198	0.5105
Se1960	196.090 {4	Y_2243	ppm	0.5631	0.0039	0.6929	0.5658	0.5603
Si2516	251.611 {1	Y_3710	ppm	0.84	0.0013	0.1585	0.8409	0.8391
Sn1899	189.989 {4	In2306	ppm	0.5196	0.0071	1.373	0.5246	0.5146
Sr4215	421.552 {	Y_3710	ppm	0.2667	0.0001	0.0358	0.2666	0.2668
Ti3349	334.904 {1	Y_3600	ppm	0.4681	0.0013	0.2757	0.4672	0.469
Tl1908	190.856 {4	In2306	ppm	0.2717	0.0287	10.58	0.292	0.2514
V_2924	292.402 {1	Y_3600	ppm	0.4662	0.0011	0.2343	0.4654	0.4669
Zn2062	206.200 {4	In2306	ppm	0.4619	0.0063	1.357	0.4663	0.4574

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1082.9	11.092	1.0243	1075	1090.7
In2306	230.606 {4	Cts/S	18410	119.39	0.64852	18325	18494
Y_2243	224.306 {4	Cts/S	21074	118.77	0.56359	20990	21158
Y_3600	360.073 {	Cts/S	199430	196.9	0.09873	199570	199290

Y_3710	371.030 {	Cts/S	62187	342.28	0.55041	61945	62429

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:42:07
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0059	0.0004	6.253	0.0062	0.0057
Al3082	308.215 {1	In2306	ppm	0.0861	0.0048	5.561	0.0828	0.0895
As1890	189.042 {4	Y_2243	ppm	0.0095	0.0002	1.82	0.0094	0.0096
B_2496	249.678 {1	Y_3710	ppm	0.0559	0.0009	1.556	0.0553	0.0565
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	1.388	0.01	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.0047	0.0001	2.149	0.0048	0.0047
Ca3158	315.887 {1	In2306	ppm	0.1226	0.0069	5.666	0.1276	0.1177
Ca3181	318.128 {1	In2306	ppm	0.1283	0.0001	0.0532	0.1284	0.1283
Cd2288	228.802 {4	Y_2243	ppm	0.0055	0.0005	8.312	0.0052	0.0059
Co2286	228.616 {4	In2306	ppm	0.0095	0.0006	6.224	0.0091	0.0099
Cr2677	267.716 {1	Y_3600	ppm	0.0098	0.0002	1.657	0.0099	0.0097
Cu3247	324.754 {1	Y_3600	ppm	0.0178	0.0001	0.5823	0.0177	0.0179
Fe2404	240.488 {1	In2306	ppm	0.1007	0.0008	0.7758	0.1012	0.1001
K_7664	766.490 {	Y_3710	ppm	0.6304	0.0016	0.2492	0.6293	0.6315
K_7698	769.896 {	Y_3710	ppm	0.7121	0.0213	2.994	0.7271	0.697
Li6707	670.784 {	Y_3710	ppm	0.0096	0.0001	1.35	0.0095	0.0097
Mg2790	279.079 {1	Y_3710	ppm	0.0932	0.0147	15.82	0.0827	0.1036
Mn2576	257.610 {1	Y_3600	ppm	0.0128	0.0001	0.4315	0.0127	0.0128
Mn2576-2	257.610 {1	Y_3710	ppm	0.0118	0.0002	1.28	0.0117	0.0119
Mo2020	202.030 {4	Y_2243	ppm	0.0137	0.0013	9.5	0.0128	0.0147
Na5895	589.592 {	Y_3710	ppm	0.5867	0.0006	0.0965	0.5871	0.5863
Na8183	818.326 {	Y_3710	ppm	0.7277	0.0932	12.8	0.7936	0.6619
Ni2316	231.604 {4	In2306	ppm	0.0093	0.0003	3.186	0.0091	0.0095
P_1782	178.284 {4	In2306	ppm	0.006	0.0001	1.468	0.0059	0.006
Pb2203	220.353 {4	In2306	ppm	0.0111	0.0009	7.957	0.0105	0.0117
S_1820	182.034 {4	Y_2243	ppm	0.1026	0.05	48.72	0.0672	0.1379
Sb2068	206.833 {4	Y_2243	ppm	0.0139	0.0016	11.5	0.0128	0.015
Se1960	196.090 {4	Y_2243	ppm	0.0137	0.0014	10.06	0.0147	0.0127
Si2516	251.611 {1	Y_3710	ppm	0.0177	0.0024	13.3	0.0194	0.0161
Sn1899	189.989 {4	In2306	ppm	0.0109	0.001	9.156	0.0102	0.0116
Sr4215	421.552 {	Y_3710	ppm	0.0053	0.0001	2.755	0.0054	0.0052
Ti3349	334.904 {1	Y_3600	ppm	0.0096	0.0002	2.545	0.0094	0.0097
Tl1908	190.856 {4	In2306	ppm	0.0883	0.0079	8.986	0.0827	0.0939
V_2924	292.402 {1	Y_3600	ppm	0.0097	0.0005	5.247	0.0101	0.0093
Zn2062	206.200 {4	In2306	ppm	0.0091	0.0005	5.653	0.0087	0.0095

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1110.6	7.9509	0.71591	1116.2	1105
In2306	230.606 {4	Cts/S	19864	85.736	0.4316	19925	19804
Y_2243	224.306 {4	Cts/S	21825	50.891	0.23318	21861	21789
Y_3600	360.073 {	Cts/S	204080	205.44	0.10067	203940	204230

Y_3710	371.030 {	Cts/S	62812	131.12	0.20876	62905	62720	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:44:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0004	0.0003	72.53	0.0002	0.0007
Al3082	308.215 {1	In2306	ppm	-0.0125	0.0064	51.58	-0.017	-0.0079
As1890	189.042 {4	Y_2243	ppm	-0.0011	0.001	86.93	-0.0004	-0.0018
B_2496	249.678 {1	Y_3710	ppm	0.0467	0.0016	3.453	0.0478	0.0455
Ba4554	455.403 {	Y_3710	ppm	0	0.0001	231.3	-0.0001	0
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	23.3	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0011	0.0015	137.7	0.0021	0
Ca3181	318.128 {1	In2306	ppm	0.0304	0.0075	24.57	0.0357	0.0251
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	5.043	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	55.35	0.0001	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	48.23	0.0001	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0079	0.0003	3.204	0.0078	0.0081
Fe2404	240.488 {1	In2306	ppm	0.004	0.003	75.52	0.0062	0.0019
K_7664	766.490 {	Y_3710	ppm	0.0654	0.0091	13.83	0.059	0.0718
K_7698	769.896 {	Y_3710	ppm	0.1141	0.0176	15.44	0.1266	0.1016
Li6707	670.784 {	Y_3710	ppm	-0.0009	0.0003	37.03	-0.0006	-0.0011
Mg2790	279.079 {1	Y_3710	ppm	0.0066	0.001	15.14	0.0059	0.0073
Mn2576	257.610 {1	Y_3600	ppm	0.0001	0.0001	137.9	0	0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0007	0.0003	45.7	0.0005	0.001
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0001	52.36	0.0001	0.0002
Na5895	589.592 {	Y_3710	ppm	-0.0192	0.0006	2.898	-0.0196	-0.0188
Na8183	818.326 {	Y_3710	ppm	-0.0848	0.0232	27.37	-0.1012	-0.0684
Ni2316	231.604 {4	In2306	ppm	0.0005	0	1.807	0.0005	0.0005
P_1782	178.284 {4	In2306	ppm	-0.0026	0.0002	8.939	-0.0028	-0.0024
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0009	181.3	0.0011	-0.0001
S_1820	182.034 {4	Y_2243	ppm	0.4825	0.0793	16.44	0.5386	0.4264
Sb2068	206.833 {4	Y_2243	ppm	0.0019	0.001	54.39	0.0012	0.0027
Se1960	196.090 {4	Y_2243	ppm	0.0009	0.0023	249.5	0.0026	-0.0007
Si2516	251.611 {1	Y_3710	ppm	-0.0017	0.0043	247.7	0.0013	-0.0048
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0001	36.1	-0.0001	-0.0002
Sr4215	421.552 {	Y_3710	ppm	-0.0001	0.0001	77.13	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	0.0003	0.0001	28.64	0.0003	0.0002
Tl1908	190.856 {4	In2306	ppm	0.0474	0.0075	15.89	0.0421	0.0527
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	49.38	-0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0003	0.0001	16.74	-0.0003	-0.0004

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1107.3	7.346	0.66343	1112.5	1102.1
In2306	230.606 {4	Cts/S	19843	133.6	0.6733	19937	19749
Y_2243	224.306 {4	Cts/S	21716	121.73	0.56055	21802	21630
Y_3600	360.073 {	Cts/S	200060	6481.9	3.2399	195480	204650

Y_3710	371.030 {	Cts/S	62648	405.03	0.64652	62934	62361	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=SD 600-60698-B-8-B@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:47:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0	0	37.35	0	0
Al3082	308.215 {1	In2306	ppm	48.87	1.403	2.871	47.88	49.86
As1890	189.042 {4	Y_2243	ppm	0.0072	0.0004	5.72	0.0069	0.0074
B_2496	249.678 {1	Y_3710	ppm	0.0543	0.0043	7.861	0.0512	0.0573
Ba4554	455.403 {	Y_3710	ppm	0.1287	0.0042	3.245	0.1258	0.1317
Be3130	313.042 {1	Y_3710	ppm	0.0038	0.0001	3.858	0.0037	0.0039
Ca3158	315.887 {1	In2306	ppm	16.13	0.4785	2.967	15.79	16.46
Ca3181	318.128 {1	In2306	ppm	12.95	0.3981	3.075	12.66	13.23
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0.0001	24.65	0.0004	0.0003
Co2286	228.616 {4	In2306	ppm	0.0123	0.0002	1.784	0.0125	0.0122
Cr2677	267.716 {1	Y_3600	ppm	0.0385	0.001	2.586	0.0393	0.0378
Cu3247	324.754 {1	Y_3600	ppm	0.0311	0.0005	1.759	0.0315	0.0307
Fe2404	240.488 {1	In2306	ppm	50.29	1.62	3.22	49.15	51.44
K_7664	766.490 {	Y_3710	ppm	3.946	0.1133	2.871	3.866	4.026
K_7698	769.896 {	Y_3710	ppm	4.155	0.1352	3.255	4.06	4.251
Li6707	670.784 {	Y_3710	ppm	0.0449	0.0013	2.97	0.044	0.0459
Mg2790	279.079 {1	Y_3710	ppm	15.35	0.521	3.394	14.98	15.72
Mn2576	257.610 {1	Y_3600	ppm	0.1857	0.0024	1.272	0.1874	0.1841
Mn2576-2	257.610 {1	Y_3710	ppm	0.1888	0.0059	3.101	0.1846	0.1929
Mo2020	202.030 {4	Y_2243	ppm	-0.0001	0.0003	333.1	0.0001	-0.0003
Na5895	589.592 {	Y_3710	ppm	3.654	0.105	2.874	3.579	3.728
Na8183	818.326 {	Y_3710	ppm	3.802	0.0598	1.574	3.76	3.844
Ni2316	231.604 {4	In2306	ppm	0.0393	0	0.0607	0.0393	0.0394
P_1782	178.284 {4	In2306	ppm	0.11	0.0019	1.749	0.1114	0.1087
Pb2203	220.353 {4	In2306	ppm	0.035	0.0002	0.4594	0.0352	0.0349
S_1820	182.034 {4	Y_2243	ppm	-13.99	0.0596	0.4259	-14.04	-13.95
Sb2068	206.833 {4	Y_2243	ppm	0.0011	0.0015	142.8	0	0.0022
Se1960	196.090 {4	Y_2243	ppm	-0.0002	0.0011	619.7	-0.001	0.0006
Si2516	251.611 {1	Y_3710	ppm	1.404	0.0483	3.439	1.37	1.438
Sn1899	189.989 {4	In2306	ppm	0.008	0.0003	3.448	0.0082	0.0078
Sr4215	421.552 {	Y_3710	ppm	0.1644	0.0046	2.813	0.1612	0.1677
Ti3349	334.904 {1	Y_3600	ppm	0.0451	0.0006	1.306	0.0455	0.0447
Tl1908	190.856 {4	In2306	ppm	0.029	0.0054	18.62	0.0252	0.0328
V_2924	292.402 {1	Y_3600	ppm	0.069	0.0011	1.571	0.0697	0.0682
Zn2062	206.200 {4	In2306	ppm	0.0856	0.0001	0.122	0.0855	0.0856

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1046	21.941	2.0976	1061.5	1030.5
In2306	230.606 {4	Cts/S	18203	27.469	0.15091	18222	18183
Y_2243	224.306 {4	Cts/S	21812	16.313	0.07479	21824	21801

Y_3600	360.073 {	Cts/S	201550	2425.2	1.2033	199830	203260
Y_3710	371.030 {	Cts/S	61895	1616.8	2.6122	63039	60752

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:52:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2717	0.001	0.3648	0.271	0.2724
Al3082	308.215 {1	In2306	ppm	2.401	0.0591	2.462	2.443	2.359
As1890	189.042 {4	Y_2243	ppm	0.5458	0.0022	0.3959	0.5474	0.5443
B_2496	249.678 {1	Y_3710	ppm	0.5036	0.008	1.592	0.5092	0.4979
Ba4554	455.403 {	Y_3710	ppm	0.4855	0.0092	1.899	0.492	0.479
Be3130	313.042 {1	Y_3710	ppm	0.4757	0.0083	1.752	0.4816	0.4698
Ca3158	315.887 {1	In2306	ppm	14.71	0.3614	2.456	14.97	14.46
Ca3181	318.128 {1	In2306	ppm	11.83	0.3004	2.539	12.04	11.62
Cd2288	228.802 {4	Y_2243	ppm	0.516	0.0014	0.2749	0.515	0.517
Co2286	228.616 {4	In2306	ppm	0.4719	0.0001	0.0217	0.472	0.4719
Cr2677	267.716 {1	Y_3600	ppm	0.5069	0.0013	0.2645	0.506	0.5079
Cu3247	324.754 {1	Y_3600	ppm	0.5325	0.0007	0.1406	0.532	0.533
Fe2404	240.488 {1	In2306	ppm	2.453	0.0647	2.636	2.499	2.408
K_7664	766.490 {	Y_3710	ppm	11.67	0.2312	1.98	11.84	11.51
K_7698	769.896 {	Y_3710	ppm	12.28	0.2689	2.19	12.47	12.09
Li6707	670.784 {	Y_3710	ppm	0.4987	0.0055	1.101	0.5026	0.4948
Mg2790	279.079 {1	Y_3710	ppm	4.553	0.1058	2.323	4.628	4.478
Mn2576	257.610 {1	Y_3600	ppm	0.618	0.0027	0.433	0.6161	0.6198
Mn2576-2	257.610 {1	Y_3710	ppm	0.5936	0.015	2.529	0.6042	0.583
Mo2020	202.030 {4	Y_2243	ppm	0.5903	0.002	0.338	0.5918	0.5889
Na5895	589.592 {	Y_3710	ppm	12.16	0.1563	1.285	12.27	12.05
Na8183	818.326 {	Y_3710	ppm	12.48	0.1796	1.44	12.6	12.35
Ni2316	231.604 {4	In2306	ppm	0.439	0.0015	0.3439	0.4379	0.4401
P_1782	178.284 {4	In2306	ppm	0.493	0.0019	0.3917	0.4917	0.4944
Pb2203	220.353 {4	In2306	ppm	0.502	0.0002	0.0491	0.5022	0.5019
S_1820	182.034 {4	Y_2243	ppm	-183.6	0.2133	0.1162	-183.8	-183.5
Sb2068	206.833 {4	Y_2243	ppm	0.5159	0.0015	0.2995	0.5148	0.517
Se1960	196.090 {4	Y_2243	ppm	0.5659	0.0002	0.0354	0.566	0.5658
Si2516	251.611 {1	Y_3710	ppm	0.8279	0.0183	2.216	0.8409	0.8149
Sn1899	189.989 {4	In2306	ppm	0.5225	0.0006	0.1152	0.5221	0.5229
Sr4215	421.552 {	Y_3710	ppm	0.2607	0.0036	1.396	0.2633	0.2581
Ti3349	334.904 {1	Y_3600	ppm	0.4747	0.0017	0.3658	0.4734	0.4759
Tl1908	190.856 {4	In2306	ppm	0.2754	0.0303	11.01	0.2969	0.254
V_2924	292.402 {1	Y_3600	ppm	0.4723	0.0009	0.1831	0.4717	0.4729
Zn2062	206.200 {4	In2306	ppm	0.465	0.0004	0.0807	0.4653	0.4647

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1096.2	22.123	2.0182	1080.5	1111.8
In2306	230.606 {4	Cts/S	18346	36.018	0.19633	18372	18321
Y_2243	224.306 {4	Cts/S	21029	42.328	0.20128	21059	20999

Y_3600	360.073 {	Cts/S	198250	63.368	0.03196	198290	198200	
Y_3710	371.030 {	Cts/S	62779	1433.3	2.2831	61766	63793	

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:54:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0059	0.0003	4.792	0.0061	0.0057
Al3082	308.215 {1	In2306	ppm	0.0839	0.0085	10.09	0.0899	0.078
As1890	189.042 {4	Y_2243	ppm	0.0105	0.0001	0.9428	0.0105	0.0104
B_2496	249.678 {1	Y_3710	ppm	0.0513	0.0033	6.465	0.0537	0.049
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	0.7656	0.0099	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0049	0	0.4691	0.0049	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1242	0.0052	4.188	0.1205	0.1279
Ca3181	318.128 {1	In2306	ppm	0.1058	0.0183	17.33	0.1188	0.0929
Cd2288	228.802 {4	Y_2243	ppm	0.0056	0.0006	10.72	0.0051	0.006
Co2286	228.616 {4	In2306	ppm	0.0095	0.0006	6.37	0.0091	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0102	0.0003	3.344	0.0099	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0182	0.0001	0.5218	0.0182	0.0181
Fe2404	240.488 {1	In2306	ppm	0.0999	0.0005	0.509	0.0996	0.1003
K_7664	766.490 {	Y_3710	ppm	0.6557	0.0141	2.151	0.6457	0.6657
K_7698	769.896 {	Y_3710	ppm	0.6467	0.024	3.709	0.6637	0.6297
Li6707	670.784 {	Y_3710	ppm	0.0107	0.0001	0.6288	0.0106	0.0107
Mg2790	279.079 {1	Y_3710	ppm	0.0868	0.0144	16.59	0.0766	0.0969
Mn2576	257.610 {1	Y_3600	ppm	0.0125	0	0.351	0.0125	0.0126
Mn2576-2	257.610 {1	Y_3710	ppm	0.013	0.0003	1.924	0.0132	0.0128
Mo2020	202.030 {4	Y_2243	ppm	0.0138	0.0013	9.334	0.0128	0.0147
Na5895	589.592 {	Y_3710	ppm	0.5912	0.0015	0.2565	0.5922	0.5901
Na8183	818.326 {	Y_3710	ppm	0.5972	0.1045	17.5	0.5233	0.6711
Ni2316	231.604 {4	In2306	ppm	0.0092	0.0006	6.934	0.0088	0.0097
P_1782	178.284 {4	In2306	ppm	0.0063	0.0018	28.25	0.0051	0.0076
Pb2203	220.353 {4	In2306	ppm	0.0106	0.0004	3.456	0.0108	0.0103
S_1820	182.034 {4	Y_2243	ppm	0.3002	0.1341	44.67	0.3951	0.2054
Sb2068	206.833 {4	Y_2243	ppm	0.015	0.0013	8.425	0.0141	0.0159
Se1960	196.090 {4	Y_2243	ppm	0.0113	0.0001	0.9509	0.0113	0.0114
Si2516	251.611 {1	Y_3710	ppm	0.0102	0.0016	16.1	0.0114	0.009
Sn1899	189.989 {4	In2306	ppm	0.011	0.001	9.289	0.0103	0.0117
Sr4215	421.552 {	Y_3710	ppm	0.0054	0.0001	0.9583	0.0054	0.0055
Ti3349	334.904 {1	Y_3600	ppm	0.0094	0.0002	2.197	0.0095	0.0092
Tl1908	190.856 {4	In2306	ppm	0.0845	0.0086	10.17	0.0785	0.0906
V_2924	292.402 {1	Y_3600	ppm	0.0094	0.0001	1.43	0.0093	0.0095
Zn2062	206.200 {4	In2306	ppm	0.0092	0.0004	4.54	0.0089	0.0095

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1099.1	0.44927	0.04087	1099.5	1098.8
In2306	230.606 {4	Cts/S	19832	178.43	0.89967	19958	19706
Y_2243	224.306 {4	Cts/S	21776	211.21	0.96993	21925	21627

Y_3600	360.073 {	Cts/S	204310	550.48	0.26943	204700	203920
Y_3710	371.030 {	Cts/S	62589	247.54	0.3955	62414	62764

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 12:56:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0003	51.49	0.0009	0.0004
Al3082	308.215 {1	In2306	ppm	-0.0124	0.0024	19.54	-0.0141	-0.0107
As1890	189.042 {4	Y_2243	ppm	-0.0012	0.0005	43.7	-0.0015	-0.0008
B_2496	249.678 {1	Y_3710	ppm	0.0405	0.0003	0.6949	0.0403	0.0407
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	5.752	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	384.3	0	0
Ca3158	315.887 {1	In2306	ppm	0.0019	0.0012	62.82	0.0027	0.0011
Ca3181	318.128 {1	In2306	ppm	0.0065	0.0018	27.58	0.0052	0.0078
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	35.7	0.0001	0
Co2286	228.616 {4	In2306	ppm	0.0001	0	8.391	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0	0.0002	1046	0.0002	-0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0074	0.0002	3.379	0.0076	0.0072
Fe2404	240.488 {1	In2306	ppm	0.0041	0.002	49.33	0.0056	0.0027
K_7664	766.490 {	Y_3710	ppm	0.0562	0.001	1.732	0.0568	0.0555
K_7698	769.896 {	Y_3710	ppm	0.0509	0.0303	59.46	0.0723	0.0295
Li6707	670.784 {	Y_3710	ppm	-0.0009	0.0001	14.3	-0.0008	-0.0009
Mg2790	279.079 {1	Y_3710	ppm	0.0004	0.0065	1560	-0.0042	0.005
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	1202	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0001	0.0008	1132	0.0006	-0.0005
Mo2020	202.030 {4	Y_2243	ppm	0	0.0001	778.5	-0.0001	0.0001
Na5895	589.592 {	Y_3710	ppm	-0.0119	0.0025	20.76	-0.0137	-0.0102
Na8183	818.326 {	Y_3710	ppm	0.1368	0.0545	39.82	0.0983	0.1753
Ni2316	231.604 {4	In2306	ppm	0.0005	0.0001	15.17	0.0005	0.0004
P_1782	178.284 {4	In2306	ppm	-0.0034	0	0.3432	-0.0034	-0.0034
Pb2203	220.353 {4	In2306	ppm	0.0008	0	2.946	0.0008	0.0007
S_1820	182.034 {4	Y_2243	ppm	0.6551	0.1729	26.39	0.5329	0.7774
Sb2068	206.833 {4	Y_2243	ppm	0.0011	0.0002	18.68	0.0012	0.0009
Se1960	196.090 {4	Y_2243	ppm	-0.0004	0.001	225.2	0.0002	-0.0011
Si2516	251.611 {1	Y_3710	ppm	0.0022	0.0037	164.7	0.0048	-0.0004
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0003	274.6	-0.0003	0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	130.2	0	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0001	157	0	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0435	0.0041	9.492	0.0406	0.0464
V_2924	292.402 {1	Y_3600	ppm	0.0003	0	19.08	0.0002	0.0003
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	9.344	-0.0003	-0.0002

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1109.3	8.4611	0.76272	1103.3	1115.3
In2306	230.606 {4	Cts/S	19780	199.38	1.008	19639	19921
Y_2243	224.306 {4	Cts/S	21770	270.7	1.2435	21578	21961

Y_3600	360.073 {	Cts/S	206310	5824.5	2.8232	210420	202190
Y_3710	371.030 {	Cts/S	62693	505.44	0.80621	62336	63050

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:00:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0006	0.0007	117.7	-0.0001	-0.0011
Al3082	308.215 {1	In2306	ppm	553.3	5.532	0.9999	549.3	557.2
As1890	189.042 {4	Y_2243	ppm	-0.0088	0.0022	25.34	-0.0072	-0.0104
B_2496	249.678 {1	Y_3710	ppm	0.0442	0.0033	7.513	0.0418	0.0465
Ba4554	455.403 {	Y_3710	ppm	0.0003	0.0001	25.84	0.0002	0.0004
Be3130	313.042 {1	Y_3710	ppm	0	0	196	0	0
Ca3158	315.887 {1	In2306	ppm	620	3.036	0.4897	617.8	622.1
Ca3181	318.128 {1	In2306	ppm	507.9	4.546	0.8952	504.6	511.1
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0.0001	32.86	0.0003	0.0005
Co2286	228.616 {4	In2306	ppm	-0.0004	0.0003	63.3	-0.0006	-0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.003	0.0004	12.41	0.0028	0.0033
Cu3247	324.754 {1	Y_3600	ppm	0.0094	0.0002	2.562	0.0096	0.0093
Fe2404	240.488 {1	In2306	ppm	201.6	1.566	0.7771	200.5	202.7
K_7664	766.490 {	Y_3710	ppm	0.0503	0.0001	0.2547	0.0502	0.0504
K_7698	769.896 {	Y_3710	ppm	-0.1639	0.0479	29.23	-0.1978	-0.1301
Li6707	670.784 {	Y_3710	ppm	0.0175	0.0004	2.333	0.0178	0.0172
Mg2790	279.079 {1	Y_3710	ppm	495.9	2.069	0.4172	494.4	497.4
Mn2576	257.610 {1	Y_3600	ppm	-0.0047	0.0003	7.145	-0.0045	-0.005
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0037	0.0013	36.54	-0.0027	-0.0046
Mo2020	202.030 {4	Y_2243	ppm	-0.0018	0.0003	15.41	-0.0016	-0.002
Na5895	589.592 {	Y_3710	ppm	0.0067	0.0015	21.73	0.0077	0.0057
Na8183	818.326 {	Y_3710	ppm	0.6128	0.1029	16.79	0.5401	0.6856
Ni2316	231.604 {4	In2306	ppm	0.0204	0	0.0788	0.0203	0.0204
P_1782	178.284 {4	In2306	ppm	0.0026	0.0009	35.96	0.002	0.0033
Pb2203	220.353 {4	In2306	ppm	-0.004	0.0002	5.37	-0.0041	-0.0038
S_1820	182.034 {4	Y_2243	ppm	14.74	0.0562	0.3813	14.78	14.7
Sb2068	206.833 {4	Y_2243	ppm	-0.0163	0.0005	3.31	-0.0159	-0.0167
Se1960	196.090 {4	Y_2243	ppm	-0.0072	0.0002	2.803	-0.0071	-0.0073
Si2516	251.611 {1	Y_3710	ppm	0.0055	0.0073	132.2	0.0004	0.0107
Sn1899	189.989 {4	In2306	ppm	0.0039	0.0012	30.28	0.0047	0.003
Sr4215	421.552 {	Y_3710	ppm	0.0025	0.0001	2.399	0.0025	0.0024
Ti3349	334.904 {1	Y_3600	ppm	0.0029	0.0001	2.445	0.0029	0.003
Tl1908	190.856 {4	In2306	ppm	0.0211	0.0043	20.56	0.018	0.0242
V_2924	292.402 {1	Y_3600	ppm	-0.0045	0.0001	1.829	-0.0044	-0.0045
Zn2062	206.200 {4	In2306	ppm	0.0088	0.0002	2.084	0.0089	0.0086

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	943.58	6.8247	0.72328	948.4	938.75
In2306	230.606 {4	Cts/S	13704	1.278	0.00933	13705	13703

Y_2243	224.306 {4	Cts/S	18964	2.8446	0.015	18962	18966
Y_3600	360.073 {	Cts/S	173810	201.34	0.11584	173670	173950
Y_3710	371.030 {	Cts/S	58893	126.66	0.21507	58982	58803

[Sample Header]
Method=ICP6500Metals_TRY3(v1022)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:02:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5914	0.0008	0.1388	0.592	0.5908
Al3082	308.215 {1	In2306	ppm	563.7	0.2586	0.0459	563.5	563.8
As1890	189.042 {4	Y_2243	ppm	1.083	0.0037	0.3372	1.085	1.08
B_2496	249.678 {1	Y_3710	ppm	0.982	0.0051	0.5162	0.9856	0.9784
Ba4554	455.403 {	Y_3710	ppm	0.9995	0.0012	0.1185	1	0.9986
Be3130	313.042 {1	Y_3710	ppm	0.474	0.0008	0.1659	0.4746	0.4735
Ca3158	315.887 {1	In2306	ppm	629.8	0.9792	0.1555	629.1	630.5
Ca3181	318.128 {1	In2306	ppm	516.6	0.0293	0.0057	516.7	516.6
Cd2288	228.802 {4	Y_2243	ppm	0.5259	0.0008	0.1553	0.5253	0.5264
Co2286	228.616 {4	In2306	ppm	0.9683	0.0016	0.1665	0.9672	0.9695
Cr2677	267.716 {1	Y_3600	ppm	0.9439	0.0064	0.6738	0.9484	0.9394
Cu3247	324.754 {1	Y_3600	ppm	1.122	0.0022	0.1985	1.121	1.124
Fe2404	240.488 {1	In2306	ppm	211.3	0.0687	0.0325	211.3	211.4
K_7664	766.490 {	Y_3710	ppm	9.979	0.0377	0.3775	9.953	10.01
K_7698	769.896 {	Y_3710	ppm	10.27	0.0444	0.4328	10.24	10.3
Li6707	670.784 {	Y_3710	ppm	1.09	0.0004	0.0322	1.09	1.09
Mg2790	279.079 {1	Y_3710	ppm	500.9	0.766	0.1529	501.4	500.3
Mn2576	257.610 {1	Y_3600	ppm	1.139	0.0006	0.0491	1.14	1.139
Mn2576-2	257.610 {1	Y_3710	ppm	1.138	0.007	0.6192	1.143	1.133
Mo2020	202.030 {4	Y_2243	ppm	1.046	0.0021	0.1975	1.044	1.047
Na5895	589.592 {	Y_3710	ppm	10.41	0	0.0002	10.41	10.41
Na8183	818.326 {	Y_3710	ppm	11.08	0.0429	0.3874	11.11	11.05
Ni2316	231.604 {4	In2306	ppm	0.9084	0.0007	0.0751	0.9088	0.9079
P_1782	178.284 {4	In2306	ppm	1.168	0.0028	0.2395	1.17	1.166
Pb2203	220.353 {4	In2306	ppm	0.9959	0.0025	0.2559	0.9977	0.9941
S_1820	182.034 {4	Y_2243	ppm	14.98	0.2267	1.513	14.82	15.14
Sb2068	206.833 {4	Y_2243	ppm	0.9918	0.0029	0.296	0.9898	0.9939
Se1960	196.090 {4	Y_2243	ppm	1.098	0.007	0.6348	1.093	1.103
Si2516	251.611 {1	Y_3710	ppm	0.862	0.0119	1.38	0.8704	0.8536
Sn1899	189.989 {4	In2306	ppm	1.06	0.0011	0.1061	1.06	1.061
Sr4215	421.552 {	Y_3710	ppm	0.5335	0.0012	0.2249	0.5344	0.5327
Ti3349	334.904 {1	Y_3600	ppm	0.9186	0.0049	0.5363	0.9221	0.9151
Tl1908	190.856 {4	In2306	ppm	0.5287	0.0601	11.36	0.5712	0.4863
V_2924	292.402 {1	Y_3600	ppm	0.8882	0.0082	0.9223	0.8939	0.8824
Zn2062	206.200 {4	In2306	ppm	0.9941	0.0001	0.007	0.994	0.9941

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	946.81	3.0027	0.31714	944.68	948.93
In2306	230.606 {4	Cts/S	13645	27.001	0.19788	13664	13626

Y_2243	224.306 {4	Cts/S	18981	54.224	0.28568	19019	18942
Y_3600	360.073 {	Cts/S	175220	676.26	0.38596	174740	175690
Y_3710	371.030 {	Cts/S	59295	198.91	0.33546	59154	59436

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:17:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0004	146.4	0.0006	0
Al3082	308.215 {1	In2306	ppm	-0.0031	0.02	634.4	-0.0173	0.011
As1890	189.042 {4	Y_2243	ppm	-0.0001	0.0005	370.5	-0.0005	0.0002
B_2496	249.678 {1	Y_3710	ppm	0.0433	0.0001	0.14	0.0433	0.0434
Ba4554	455.403 {	Y_3710	ppm	0.0002	0	22.26	0.0002	0.0002
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	22.68	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.026	0.0171	66.02	0.0138	0.0381
Ca3181	318.128 {1	In2306	ppm	0.0184	0.0031	16.82	0.0163	0.0206
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	33.93	0	0.0001
Co2286	228.616 {4	In2306	ppm	-0.0002	0.0001	76.07	-0.0002	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0.0001	30.03	0.0004	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0095	0.0002	2.305	0.0097	0.0094
Fe2404	240.488 {1	In2306	ppm	0.007	0.001	13.7	0.0077	0.0063
K_7664	766.490 {	Y_3710	ppm	0.0402	0.0009	2.18	0.0409	0.0396
K_7698	769.896 {	Y_3710	ppm	0.2046	0.0042	2.069	0.2076	0.2016
Li6707	670.784 {	Y_3710	ppm	-0.0002	0.0003	222.6	-0.0004	0.0001
Mg2790	279.079 {1	Y_3710	ppm	0.0033	0.0083	247.3	0.0092	-0.0025
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	1287	0.0001	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0003	0.0005	139.3	0	-0.0007
Mo2020	202.030 {4	Y_2243	ppm	0.0029	0.0012	42.04	0.002	0.0038
Na5895	589.592 {	Y_3710	ppm	-0.0017	0.0008	47.22	-0.0011	-0.0022
Na8183	818.326 {	Y_3710	ppm	0.0367	0.1958	532.8	0.1752	-0.1017
Ni2316	231.604 {4	In2306	ppm	0.0001	0.0001	74.32	0.0001	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0014	0.0001	7.516	-0.0014	-0.0015
Pb2203	220.353 {4	In2306	ppm	0.0001	0.0008	612.8	0.0007	-0.0005
S_1820	182.034 {4	Y_2243	ppm	0.0225	0.136	603.2	-0.0736	0.1187
Sb2068	206.833 {4	Y_2243	ppm	0.0112	0.0023	20.65	0.0095	0.0128
Se1960	196.090 {4	Y_2243	ppm	0.0049	0.0013	25.76	0.004	0.0058
Si2516	251.611 {1	Y_3710	ppm	0.0076	0.0002	3.067	0.0077	0.0074
Sn1899	189.989 {4	In2306	ppm	0.0011	0.0008	74.13	0.0005	0.0016
Sr4215	421.552 {	Y_3710	ppm	-0.0001	0	34.02	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0002	146.4	-0.0003	0
Tl1908	190.856 {4	In2306	ppm	0.1575	0.025	15.85	0.1399	0.1752
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0003	136	0	-0.0004
Zn2062	206.200 {4	In2306	ppm	0.0034	0.0002	5.394	0.0033	0.0035

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1010.9	0.859	0.08497	1011.5	1010.3
In2306	230.606 {4	Cts/S	15158	5.5323	0.0365	15162	15154
Y_2243	224.306 {4	Cts/S	21625	46.823	0.21653	21658	21592
Y_3600	360.073 {	Cts/S	195940	186.52	0.09519	195800	196070
Y_3710	371.030 {	Cts/S	53497	115.39	0.2157	53415	53578

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:19:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0002	27.61	0.0007	0.0005
Al3082	308.215 {1	In2306	ppm	-0.0098	0.0008	8.564	-0.0092	-0.0104
As1890	189.042 {4	Y_2243	ppm	0.0001	0.0002	148	0.0003	0
B_2496	249.678 {1	Y_3710	ppm	0.0402	0.0006	1.596	0.0397	0.0406
Ba4554	455.403 {	Y_3710	ppm	0.0002	0.0002	119.8	0	0.0003
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	29.54	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0405	0.008	19.75	0.0348	0.0461
Ca3181	318.128 {1	In2306	ppm	0.054	0.0063	11.66	0.0584	0.0495
Cd2288	228.802 {4	Y_2243	ppm	0	0	81.32	0	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	38.44	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0001	93.25	0	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0093	0.0001	0.8914	0.0093	0.0092
Fe2404	240.488 {1	In2306	ppm	0.0081	0.0022	26.86	0.0096	0.0066
K_7664	766.490 {	Y_3710	ppm	0.0834	0.0036	4.362	0.086	0.0808
K_7698	769.896 {	Y_3710	ppm	0.1281	0.0144	11.26	0.1179	0.1383
Li6707	670.784 {	Y_3710	ppm	-0.0003	0.0004	112.5	-0.0006	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	0.0853	0.0007	0.831	0.0858	0.0848
Mn2576	257.610 {1	Y_3600	ppm	0.001	0	5.069	0.0009	0.001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0011	0.0002	20.76	0.0009	0.0012
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0002	97.18	0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	0.0113	0.0057	50.04	0.0153	0.0073
Na8183	818.326 {	Y_3710	ppm	0.098	0.0288	29.44	0.0776	0.1184
Ni2316	231.604 {4	In2306	ppm	-0.0001	0	38.89	-0.0002	-0.0001
P_1782	178.284 {4	In2306	ppm	-0.0031	0.0001	2.854	-0.0031	-0.0032
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0008	108.4	0.0013	0.0002
S_1820	182.034 {4	Y_2243	ppm	0.122	0.1043	85.47	0.0483	0.1957
Sb2068	206.833 {4	Y_2243	ppm	0.0042	0.0017	41.71	0.0029	0.0054
Se1960	196.090 {4	Y_2243	ppm	0.0013	0.0001	7.712	0.0013	0.0014
Si2516	251.611 {1	Y_3710	ppm	0.0177	0.01	56.39	0.0107	0.0248
Sn1899	189.989 {4	In2306	ppm	0.0006	0.0007	123.4	0.0011	0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	53.32	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0	8.269	-0.0002	-0.0002
Tl1908	190.856 {4	In2306	ppm	0.0816	0.0133	16.32	0.0721	0.091
V_2924	292.402 {1	Y_3600	ppm	-0.0012	0.0001	11.49	-0.0011	-0.0013
Zn2062	206.200 {4	In2306	ppm	0.0048	0.0002	3.328	0.0047	0.0049

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1019.4	12.523	1.2285	1028.2	1010.5
In2306	230.606 {4	Cts/S	15185	106.81	0.7034	15260	15109
Y_2243	224.306 {4	Cts/S	21673	211.51	0.97592	21823	21523
Y_3600	360.073 {	Cts/S	196490	649.88	0.33074	196950	196030
Y_3710	371.030 {	Cts/S	53541	279.95	0.52288	53739	53343

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=Blank
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:21:57
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	Cts/S	-0.0001	0	4.146	-0.0001	-0.0001
Al3082	308.215	{1 In2306	Cts/S	0.0105	0.008	75.69	0.0162	0.0049
As1890	189.042	{4 Y_2243	Cts/S	-0.0002	0	30.02	-0.0002	-0.0001
B_2496	249.678	{1 Y_3710	Cts/S	0.001	0.0001	8.626	0.0011	0.001
Ba4554	455.403	{ 7 Y_3710	Cts/S	0.0012	0.0001	6.124	0.0011	0.0012
Be3130	313.042	{1 Y_3710	Cts/S	-0.0002	0	9.947	-0.0002	-0.0001
Ca3158	315.887	{1 In2306	Cts/S	-0.0329	0.0016	4.926	-0.0341	-0.0318
Ca3181	318.128	{1 In2306	Cts/S	-0.0035	0.0059	169.8	0.0007	-0.0077
Cd2288	228.802	{4 Y_2243	Cts/S	0.0003	0	5.805	0.0003	0.0003
Co2286	228.616	{4 In2306	Cts/S	-0.0002	0	21.14	-0.0001	-0.0002
Cr2677	267.716	{1 Y_3600	Cts/S	0	0	242.9	0	0
Cu3247	324.754	{1 Y_3600	Cts/S	0.0051	0.0001	1.062	0.0052	0.0051
Fe2404	240.488	{1 In2306	Cts/S	0.0027	0.003	112.3	0.0005	0.0048
K_7664	766.490	{ 4 Y_3710	Cts/S	-0.0001	0.0001	140.2	0	-0.0002
K_7698	769.896	{ 4 Y_3710	Cts/S	0.0046	0.0003	7.024	0.0048	0.0043
Li6707	670.784	{ 8 Y_3710	Cts/S	0	0	72.95	0.0001	0
Mg2790	279.079	{1 Y_3710	Cts/S	0	0.0001	1323	0.0001	0
Mn2576	257.610	{1 Y_3600	Cts/S	0	0	9.534	0	0
Mn2576-2	257.610	{1 Y_3710	Cts/S	0.0001	0	27.56	0	0.0001
Mo2020	202.030	{4 Y_2243	Cts/S	0.0001	0	17.51	0.0001	0.0001
Na5895	589.592	{ 8 Y_3710	Cts/S	0.0012	0.0003	22.36	0.0014	0.001
Na8183	818.326	{ 4 Y_3710	Cts/S	-0.0001	0.0003	184.2	-0.0003	0
Ni2316	231.604	{4 In2306	Cts/S	-0.0001	0	55.07	-0.0001	0
P_1782	178.284	{4 In2306	Cts/S	0.0002	0	8.787	0.0002	0.0002
Pb2203	220.353	{4 In2306	Cts/S	-0.0001	0	22.49	-0.0001	-0.0001
S_1820	182.034	{4 Y_2243	Cts/S	-0.0002	0	1.562	-0.0002	-0.0002
Sb2068	206.833	{4 Y_2243	Cts/S	0.0001	0	47.57	0	0.0001
Se1960	196.090	{4 Y_2243	Cts/S	0	0	205.3	0	0
Si2516	251.611	{1 Y_3710	Cts/S	0.0002	0	15.93	0.0003	0.0002
Sn1899	189.989	{4 In2306	Cts/S	0	0	33.63	0	0.0001
Sr4215	421.552	{ 8 Y_3710	Cts/S	0.0003	0	9.104	0.0003	0.0003
Ti3349	334.904	{1 Y_3600	Cts/S	0	0	16.59	0	0
Tl1908	190.856	{4 In2306	Cts/S	0.0019	0.0004	20.47	0.0016	0.0022
V_2924	292.402	{1 Y_3600	Cts/S	-0.0002	0	9.02	-0.0002	-0.0002
Zn2062	206.200	{4 In2306	Cts/S	0.0014	0	3.082	0.0015	0.0014

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	961.29	33.852	3.5216	937.35	985.23
In2306	230.606	{4 Cts/S	15219	13.154	0.08643	15229	15210
Y_2243	224.306	{4 Cts/S	21802	28.627	0.1313	21782	21822
Y_3600	360.073	{ 9 Cts/S	197620	5488.9	2.7776	201500	193730
Y_3710	371.030	{ 9 Cts/S	50357	1665.6	3.3076	49179	51534

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CalibStd-1
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:24:21
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0021	0.0001	3.078	0.0022	0.0021
Al3082	308.215 {1	In2306	Cts/S	0.3869	0.0029	0.7472	0.389	0.3849
As1890	189.042 {4	Y_2243	Cts/S	0.0051	0.0001	1.003	0.0052	0.0051
B_2496	249.678 {1	Y_3710	Cts/S	0.0036	0	1.392	0.0035	0.0036
Ba4554	455.403 {	Y_3710	Cts/S	0.1834	0.0019	1.054	0.1821	0.1848
Be3130	313.042 {1	Y_3710	Cts/S	0.1325	0.0007	0.5156	0.132	0.133
Ca3158	315.887 {1	In2306	Cts/S	0.6873	0.0026	0.374	0.6855	0.6891
Ca3181	318.128 {1	In2306	Cts/S	0.2877	0.0033	1.145	0.2853	0.29
Cd2288	228.802 {4	Y_2243	Cts/S	0.0594	0.0007	1.179	0.0599	0.059
Co2286	228.616 {4	In2306	Cts/S	0.097	0.0016	1.628	0.0982	0.0959
Cr2677	267.716 {1	Y_3600	Cts/S	0.0088	0	0.06	0.0088	0.0088
Cu3247	324.754 {1	Y_3600	Cts/S	0.0284	0.0002	0.6935	0.0286	0.0283
Fe2404	240.488 {1	In2306	Cts/S	1.122	0.0062	0.551	1.118	1.126
K_7664	766.490 {	Y_3710	Cts/S	0.0155	0	0.0528	0.0155	0.0155
K_7698	769.896 {	Y_3710	Cts/S	0.0114	0.0002	1.795	0.0112	0.0115
Li6707	670.784 {	Y_3710	Cts/S	0.0432	0	0.0853	0.0432	0.0432
Mg2790	279.079 {1	Y_3710	Cts/S	0.0052	0	0.781	0.0052	0.0052
Mn2576	257.610 {1	Y_3600	Cts/S	0.0249	0	0.1292	0.0249	0.0249
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0128	0	0.0574	0.0128	0.0128
Mo2020	202.030 {4	Y_2243	Cts/S	0.0317	0.0005	1.444	0.032	0.0313
Na5895	589.592 {	Y_3710	Cts/S	0.0507	0.0004	0.8675	0.0504	0.051
Na8183	818.326 {	Y_3710	Cts/S	0.0015	0.0001	4.659	0.0015	0.0014
Ni2316	231.604 {4	In2306	Cts/S	0.0575	0.0007	1.299	0.0581	0.057
P_1782	178.284 {4	In2306	Cts/S	0.0048	0	0.4707	0.0048	0.0048
Pb2203	220.353 {4	In2306	Cts/S	0.016	0.0003	1.947	0.0162	0.0158
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	25.35	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0054	0.0001	1.676	0.0055	0.0053
Se1960	196.090 {4	Y_2243	Cts/S	0.0033	0	1.141	0.0033	0.0032
Si2516	251.611 {1	Y_3710	Cts/S	0.0015	0	2.646	0.0016	0.0015
Sn1899	189.989 {4	In2306	Cts/S	0.0184	0.0004	2.008	0.0187	0.0182
Sr4215	421.552 {	Y_3710	Cts/S	0.1558	0.0014	0.8693	0.1548	0.1567
Ti3349	334.904 {1	Y_3600	Cts/S	0.0159	0.0002	1.055	0.0157	0.016
Tl1908	190.856 {4	In2306	Cts/S	0.005	0.0003	6.072	0.0052	0.0048
V_2924	292.402 {1	Y_3600	Cts/S	0.0128	0.0001	1.089	0.0127	0.0129
Zn2062	206.200 {4	In2306	Cts/S	0.0961	0.0013	1.364	0.097	0.0952

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1022.1	4.7723	0.46693	1018.7	1025.4
In2306	230.606 {4	Cts/S	14887	141.56	0.9509	14787	14987
Y_2243	224.306 {4	Cts/S	21675	165.9	0.76539	21558	21792
Y_3600	360.073 {	Cts/S	191490	133.31	0.06962	191400	191590
Y_3710	371.030 {	Cts/S	53584	228.56	0.42655	53746	53422

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CalibStd-2
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:26:38
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0041	0	1.13	0.0041	0.0041
Al3082	308.215 {1	In2306	Cts/S	0.7558	0.0052	0.6872	0.7521	0.7595
As1890	189.042 {4	Y_2243	Cts/S	0.0102	0.0002	1.818	0.0104	0.0101
B_2496	249.678 {1	Y_3710	Cts/S	0.0061	0	0.264	0.0061	0.0061
Ba4554	455.403 {	Y_3710	Cts/S	0.3664	0.0012	0.3306	0.3655	0.3672
Be3130	313.042 {1	Y_3710	Cts/S	0.2651	0.0019	0.7185	0.2638	0.2665
Ca3158	315.887 {1	In2306	Cts/S	1.405	0.0036	0.2568	1.408	1.403
Ca3181	318.128 {1	In2306	Cts/S	0.5821	0	0.0082	0.5821	0.582
Cd2288	228.802 {4	Y_2243	Cts/S	0.118	0.0023	1.925	0.1196	0.1164
Co2286	228.616 {4	In2306	Cts/S	0.1946	0.004	2.074	0.1975	0.1918
Cr2677	267.716 {1	Y_3600	Cts/S	0.017	0	0.0132	0.017	0.017
Cu3247	324.754 {1	Y_3600	Cts/S	0.0503	0.0002	0.4078	0.0504	0.0501
Fe2404	240.488 {1	In2306	Cts/S	2.224	0.0172	0.7712	2.212	2.236
K_7664	766.490 {	Y_3710	Cts/S	0.0304	0.0002	0.7156	0.0306	0.0303
K_7698	769.896 {	Y_3710	Cts/S	0.0183	0.0001	0.3204	0.0183	0.0182
Li6707	670.784 {	Y_3710	Cts/S	0.0858	0.0001	0.0939	0.0858	0.0857
Mg2790	279.079 {1	Y_3710	Cts/S	0.0104	0.0001	0.9577	0.0104	0.0105
Mn2576	257.610 {1	Y_3600	Cts/S	0.0476	0.0002	0.5077	0.0478	0.0474
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0255	0.0002	0.6853	0.0254	0.0257
Mo2020	202.030 {4	Y_2243	Cts/S	0.0628	0.0014	2.19	0.0638	0.0618
Na5895	589.592 {	Y_3710	Cts/S	0.0998	0.0003	0.3367	0.1	0.0996
Na8183	818.326 {	Y_3710	Cts/S	0.0036	0.0003	7.015	0.0038	0.0034
Ni2316	231.604 {4	In2306	Cts/S	0.1154	0.0025	2.167	0.1172	0.1137
P_1782	178.284 {4	In2306	Cts/S	0.0096	0.0002	2.067	0.0097	0.0095
Pb2203	220.353 {4	In2306	Cts/S	0.0323	0.0007	2.206	0.0328	0.0318
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	3.024	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0107	0.0002	1.595	0.0108	0.0106
Se1960	196.090 {4	Y_2243	Cts/S	0.0065	0.0001	1.108	0.0065	0.0064
Si2516	251.611 {1	Y_3710	Cts/S	0.0029	0.0002	5.62	0.0028	0.003
Sn1899	189.989 {4	In2306	Cts/S	0.0368	0.0007	1.819	0.0372	0.0363
Sr4215	421.552 {	Y_3710	Cts/S	0.3103	0.0008	0.2661	0.3097	0.3109
Ti3349	334.904 {1	Y_3600	Cts/S	0.0304	0.0002	0.6666	0.0305	0.0302
Tl1908	190.856 {4	In2306	Cts/S	0.0097	0.001	9.927	0.0104	0.0091
V_2924	292.402 {1	Y_3600	Cts/S	0.0249	0.0001	0.4148	0.025	0.0248
Zn2062	206.200 {4	In2306	Cts/S	0.1917	0.0038	1.968	0.1944	0.189

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1022.4	5.518	0.5397	1026.3	1018.5
In2306	230.606 {4	Cts/S	14736	191.47	1.2993	14601	14872
Y_2243	224.306 {4	Cts/S	21754	285.23	1.3111	21553	21956
Y_3600	360.073 {	Cts/S	195870	214.05	0.10928	195710	196020
Y_3710	371.030 {	Cts/S	53549	209.28	0.39082	53697	53401

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CalibStd-3
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:28:53
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0081	0	0.1333	0.008	0.0081
Al3082	308.215 {1	In2306	Cts/S	1.508	0.0204	1.355	1.523	1.494
As1890	189.042 {4	Y_2243	Cts/S	0.0203	0.0002	1.209	0.0205	0.0201
B_2496	249.678 {1	Y_3710	Cts/S	0.011	0	0.2455	0.011	0.0109
Ba4554	455.403 {	Y_3710	Cts/S	0.7318	0.0077	1.047	0.7372	0.7264
Be3130	313.042 {1	Y_3710	Cts/S	0.5262	0.0055	1.053	0.5301	0.5222
Ca3158	315.887 {1	In2306	Cts/S	2.809	0.0344	1.223	2.833	2.784
Ca3181	318.128 {1	In2306	Cts/S	1.169	0.0211	1.808	1.184	1.154
Cd2288	228.802 {4	Y_2243	Cts/S	0.2317	0.0017	0.7153	0.2329	0.2305
Co2286	228.616 {4	In2306	Cts/S	0.3885	0.0024	0.6062	0.3902	0.3868
Cr2677	267.716 {1	Y_3600	Cts/S	0.0335	0.0001	0.4157	0.0336	0.0334
Cu3247	324.754 {1	Y_3600	Cts/S	0.0943	0.0002	0.2081	0.0942	0.0944
Fe2404	240.488 {1	In2306	Cts/S	4.48	0.074	1.652	4.532	4.428
K_7664	766.490 {	Y_3710	Cts/S	0.0604	0.001	1.735	0.0612	0.0597
K_7698	769.896 {	Y_3710	Cts/S	0.0324	0.0005	1.538	0.0327	0.032
Li6707	670.784 {	Y_3710	Cts/S	0.1701	0.0016	0.965	0.1713	0.169
Mg2790	279.079 {1	Y_3710	Cts/S	0.0207	0.0004	1.853	0.0209	0.0204
Mn2576	257.610 {1	Y_3600	Cts/S	0.093	0.0002	0.1846	0.0931	0.0929
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0501	0.0007	1.353	0.0506	0.0496
Mo2020	202.030 {4	Y_2243	Cts/S	0.1235	0.0016	1.256	0.1246	0.1224
Na5895	589.592 {	Y_3710	Cts/S	0.1962	0.0024	1.216	0.1979	0.1946
Na8183	818.326 {	Y_3710	Cts/S	0.0078	0.0004	4.68	0.0081	0.0075
Ni2316	231.604 {4	In2306	Cts/S	0.2287	0.0019	0.8215	0.2301	0.2274
P_1782	178.284 {4	In2306	Cts/S	0.0191	0.0001	0.3108	0.0191	0.0191
Pb2203	220.353 {4	In2306	Cts/S	0.0641	0.0001	0.214	0.0642	0.064
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0.0001	26.8	-0.0002	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0212	0.0003	1.305	0.0214	0.021
Se1960	196.090 {4	Y_2243	Cts/S	0.0128	0.0001	0.7587	0.0129	0.0127
Si2516	251.611 {1	Y_3710	Cts/S	0.0055	0.0001	1.35	0.0055	0.0054
Sn1899	189.989 {4	In2306	Cts/S	0.0735	0.0008	1.053	0.0741	0.073
Sr4215	421.552 {	Y_3710	Cts/S	0.6141	0.0067	1.094	0.6189	0.6094
Ti3349	334.904 {1	Y_3600	Cts/S	0.0608	0.0001	0.148	0.0609	0.0607
Tl1908	190.856 {4	In2306	Cts/S	0.0201	0.0018	8.887	0.0214	0.0189
V_2924	292.402 {1	Y_3600	Cts/S	0.0495	0.0001	0.1847	0.0496	0.0494
Zn2062	206.200 {4	In2306	Cts/S	0.3791	0.0045	1.179	0.3823	0.376

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1014.4	11.921	1.1752	1006	1022.8
In2306	230.606 {4	Cts/S	14569	56.464	0.38755	14529	14609
Y_2243	224.306 {4	Cts/S	21928	123.1	0.56139	21841	22015
Y_3600	360.073 {	Cts/S	196320	5.2427	0.00267	196310	196320
Y_3710	371.030 {	Cts/S	53980	771.17	1.4286	53434	54525

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CalibStd-4
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:31:04
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0155	0.0007	4.724	0.015	0.016
Al3082	308.215 {1	In2306	Cts/S	3.034	0.007	0.2316	3.039	3.029
As1890	189.042 {4	Y_2243	Cts/S	0.0415	0.0008	1.827	0.0421	0.041
B_2496	249.678 {1	Y_3710	Cts/S	0.0211	0.0002	0.7741	0.0212	0.021
Ba4554	455.403 {	Y_3710	Cts/S	1.484	0.0091	0.6145	1.49	1.477
Be3130	313.042 {1	Y_3710	Cts/S	1.068	0.0063	0.5873	1.072	1.063
Ca3158	315.887 {1	In2306	Cts/S	5.744	0.0604	1.052	5.787	5.702
Ca3181	318.128 {1	In2306	Cts/S	2.389	0.0237	0.9912	2.405	2.372
Cd2288	228.802 {4	Y_2243	Cts/S	0.4724	0.0073	1.549	0.4776	0.4673
Co2286	228.616 {4	In2306	Cts/S	0.811	0.0107	1.317	0.8185	0.8034
Cr2677	267.716 {1	Y_3600	Cts/S	0.0647	0.0033	5.059	0.0624	0.0671
Cu3247	324.754 {1	Y_3600	Cts/S	0.1778	0.0083	4.644	0.172	0.1837
Fe2404	240.488 {1	In2306	Cts/S	9.071	0.106	1.169	9.146	8.996
K_7664	766.490 {	Y_3710	Cts/S	0.1226	0.0004	0.325	0.1229	0.1224
K_7698	769.896 {	Y_3710	Cts/S	0.0614	0.0006	0.9579	0.0618	0.061
Li6707	670.784 {	Y_3710	Cts/S	0.3424	0.0017	0.4922	0.3436	0.3412
Mg2790	279.079 {1	Y_3710	Cts/S	0.0422	0.0001	0.2211	0.0422	0.0421
Mn2576	257.610 {1	Y_3600	Cts/S	0.1799	0.0091	5.079	0.1734	0.1864
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.1007	0.0006	0.5504	0.1011	0.1003
Mo2020	202.030 {4	Y_2243	Cts/S	0.2491	0.0046	1.859	0.2524	0.2459
Na5895	589.592 {	Y_3710	Cts/S	0.397	0.0016	0.4124	0.3981	0.3958
Na8183	818.326 {	Y_3710	Cts/S	0.0161	0.0002	0.961	0.0162	0.016
Ni2316	231.604 {4	In2306	Cts/S	0.4722	0.0064	1.35	0.4767	0.4677
P_1782	178.284 {4	In2306	Cts/S	0.0402	0.0005	1.24	0.0406	0.0399
Pb2203	220.353 {4	In2306	Cts/S	0.1325	0.0019	1.439	0.1339	0.1312
S_1820	182.034 {4	Y_2243	Cts/S	-0.0002	0	3.686	-0.0003	-0.0002
Sb2068	206.833 {4	Y_2243	Cts/S	0.0429	0.0006	1.456	0.0434	0.0425
Se1960	196.090 {4	Y_2243	Cts/S	0.0262	0.0005	2.006	0.0265	0.0258
Si2516	251.611 {1	Y_3710	Cts/S	0.0113	0.0001	0.7261	0.0114	0.0112
Sn1899	189.989 {4	In2306	Cts/S	0.1518	0.0021	1.397	0.1533	0.1503
Sr4215	421.552 {	Y_3710	Cts/S	1.243	0.0062	0.498	1.247	1.239
Ti3349	334.904 {1	Y_3600	Cts/S	0.1178	0.006	5.053	0.1136	0.122
Tl1908	190.856 {4	In2306	Cts/S	0.0447	0.0037	8.394	0.0473	0.042
V_2924	292.402 {1	Y_3600	Cts/S	0.0966	0.0048	4.971	0.0932	0.1
Zn2062	206.200 {4	In2306	Cts/S	0.7902	0.0104	1.31	0.7976	0.7829

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	994.38	11.596	1.1662	986.18	1002.6
In2306	230.606 {4	Cts/S	13915	119.97	0.86212	13830	14000
Y_2243	224.306 {4	Cts/S	21511	236.84	1.101	21344	21679
Y_3600	360.073 {	Cts/S	200660	7567	3.7711	206010	195310
Y_3710	371.030 {	Cts/S	53111	330.12	0.62156	52877	53344

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CalibStd-5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:33:13
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0319	0.0001	0.3244	0.0319	0.0318
Al3082	308.215 {1	In2306	Cts/S	6.082	0.0049	0.0803	6.078	6.085
As1890	189.042 {4	Y_2243	Cts/S	0.082	0.0002	0.1911	0.0821	0.0819
B_2496	249.678 {1	Y_3710	Cts/S	0.0415	0.0004	1.061	0.0419	0.0412
Ba4554	455.403 {	Y_3710	Cts/S	2.966	0.0059	0.1974	2.961	2.97
Be3130	313.042 {1	Y_3710	Cts/S	2.132	0.0043	0.2026	2.135	2.129
Ca3158	315.887 {1	In2306	Cts/S	11.34	0.1349	1.19	11.44	11.24
Ca3181	318.128 {1	In2306	Cts/S	4.762	0.0176	0.3689	4.774	4.749
Cd2288	228.802 {4	Y_2243	Cts/S	0.927	0.0007	0.0803	0.9275	0.9264
Co2286	228.616 {4	In2306	Cts/S	1.617	0.0039	0.2437	1.62	1.614
Cr2677	267.716 {1	Y_3600	Cts/S	0.1322	0.0002	0.1225	0.1323	0.132
Cu3247	324.754 {1	Y_3600	Cts/S	0.3601	0.0004	0.1054	0.3598	0.3604
Fe2404	240.488 {1	In2306	Cts/S	17.94	0.0661	0.3683	17.89	17.99
K_7664	766.490 {	Y_3710	Cts/S	0.2458	0.0005	0.2003	0.2461	0.2454
K_7698	769.896 {	Y_3710	Cts/S	0.1187	0.001	0.881	0.1194	0.1179
Li6707	670.784 {	Y_3710	Cts/S	0.6814	0.0014	0.1992	0.6823	0.6804
Mg2790	279.079 {1	Y_3710	Cts/S	0.0839	0.0004	0.4612	0.0842	0.0836
Mn2576	257.610 {1	Y_3600	Cts/S	0.3648	0.0008	0.2136	0.3654	0.3642
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.1973	0.0027	1.375	0.1992	0.1954
Mo2020	202.030 {4	Y_2243	Cts/S	0.4847	0.0014	0.2925	0.4857	0.4837
Na5895	589.592 {	Y_3710	Cts/S	0.7918	0.0019	0.2362	0.7932	0.7905
Na8183	818.326 {	Y_3710	Cts/S	0.0323	0	0.0692	0.0324	0.0323
Ni2316	231.604 {4	In2306	Cts/S	0.9376	0.0026	0.2795	0.9395	0.9357
P_1782	178.284 {4	In2306	Cts/S	0.0815	0.0003	0.3097	0.0813	0.0817
Pb2203	220.353 {4	In2306	Cts/S	0.2624	0.0004	0.1484	0.2627	0.2622
Sb2068	206.833 {4	Y_2243	Cts/S	0.084	0.0002	0.2962	0.0842	0.0838
Se1960	196.090 {4	Y_2243	Cts/S	0.0512	0.0004	0.8559	0.0516	0.0509
Si2516	251.611 {1	Y_3710	Cts/S	0.0225	0.0002	0.7182	0.0224	0.0226
Sn1899	189.989 {4	In2306	Cts/S	0.3019	0.0009	0.2847	0.3025	0.3013
Sr4215	421.552 {	Y_3710	Cts/S	2.485	0.0001	0.003	2.485	2.485
Ti3349	334.904 {1	Y_3600	Cts/S	0.2422	0.0003	0.1355	0.2425	0.242
Tl1908	190.856 {4	In2306	Cts/S	0.0945	0.0058	6.174	0.0987	0.0904
V_2924	292.402 {1	Y_3600	Cts/S	0.1991	0.0004	0.1993	0.1993	0.1988
Zn2062	206.200 {4	In2306	Cts/S	1.586	0.0047	0.2947	1.589	1.582

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	994.5	5.2866	0.53159	990.76	998.24
In2306	230.606 {4	Cts/S	13538	1.5495	0.01145	13539	13537
Y_2243	224.306 {4	Cts/S	21566	6.7712	0.0314	21571	21562
Y_3600	360.073 {	Cts/S	193050	156.75	0.0812	193170	192940
Y_3710	371.030 {	Cts/S	53301	553.05	1.0376	52910	53692

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=ICV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:35:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.2464	0.0009	0.3647	0.2471	0.2458
Al3082	308.215	{1 In2306	ppm	2.418	0.0157	0.651	2.429	2.407
As1890	189.042	{4 Y_2243	ppm	0.4947	0	0.0051	0.4947	0.4946
B_2496	249.678	{1 Y_3710	ppm	0.5021	0.0031	0.6085	0.5	0.5043
Ba4554	455.403	{ 7 Y_3710	ppm	0.4852	0.0002	0.0432	0.4853	0.485
Be3130	313.042	{1 Y_3710	ppm	0.4966	0.0002	0.0484	0.4968	0.4964
Ca3158	315.887	{1 In2306	ppm	12.12	0.0426	0.3517	12.09	12.15
Ca3181	318.128	{1 In2306	ppm	12.09	0.0388	0.3213	12.12	12.07
Cd2288	228.802	{4 Y_2243	ppm	0.4892	0.0003	0.0672	0.4889	0.4894
Co2286	228.616	{4 In2306	ppm	0.4879	0.0022	0.4539	0.4894	0.4863
Cr2677	267.716	{1 Y_3600	ppm	0.5008	0.0033	0.6511	0.5031	0.4985
Cu3247	324.754	{1 Y_3600	ppm	0.493	0.002	0.4004	0.4944	0.4916
Fe2404	240.488	{1 In2306	ppm	2.429	0.0066	0.2734	2.434	2.425
K_7664	766.490	{ 4 Y_3710	ppm	12.42	0.0342	0.275	12.44	12.39
K_7698	769.896	{ 4 Y_3710	ppm	12.53	0.0491	0.392	12.49	12.56
Li6707	670.784	{ 8 Y_3710	ppm	0.4906	0.0005	0.0985	0.4909	0.4903
Mg2790	279.079	{1 Y_3710	ppm	4.959	0.0812	1.637	4.902	5.016
Mn2576	257.610	{1 Y_3600	ppm	0.4954	0.0015	0.2984	0.4965	0.4944
Mn2576-2	257.610	{1 Y_3710	ppm	0.4942	0	0.0099	0.4942	0.4943
Mo2020	202.030	{4 Y_2243	ppm	0.5062	0.0001	0.0169	0.5061	0.5062
Na5895	589.592	{ 8 Y_3710	ppm	12.38	0.0304	0.2455	12.4	12.35
Na8183	818.326	{ 4 Y_3710	ppm	12.52	0.0379	0.3024	12.55	12.5
Ni2316	231.604	{4 In2306	ppm	0.4864	0.0016	0.3273	0.4875	0.4853
P_1782	178.284	{4 In2306	ppm	0.4857	0.0027	0.5566	0.4876	0.4838
Pb2203	220.353	{4 In2306	ppm	0.4857	0.0021	0.4271	0.4872	0.4843
S_1820	182.034	{4 Y_2243	ppm	-543.9	1.1	0.2022	-543.1	-544.7
Sb2068	206.833	{4 Y_2243	ppm	0.4946	0.0016	0.33	0.4934	0.4957
Se1960	196.090	{4 Y_2243	ppm	0.4936	0.0011	0.2168	0.4943	0.4928
Si2516	251.611	{1 Y_3710	ppm	0.9471	0.009	0.9462	0.9408	0.9534
Sn1899	189.989	{4 In2306	ppm	0.4924	0.0003	0.0509	0.4925	0.4922
Sr4215	421.552	{ 8 Y_3710	ppm	0.2457	0.0002	0.0638	0.2456	0.2458
Ti3349	334.904	{1 Y_3600	ppm	0.5024	0.0015	0.3008	0.5034	0.5013
Tl1908	190.856	{4 In2306	ppm	0.768	0.0416	5.421	0.7385	0.7974
V_2924	292.402	{1 Y_3600	ppm	0.5038	0.0014	0.2708	0.5048	0.5029
Zn2062	206.200	{4 In2306	ppm	0.4836	0.0028	0.5736	0.4856	0.4816

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1016.6	3.0293	0.29798	1018.8	1014.5
In2306	230.606	{4 Cts/S	14220	75.794	0.53301	14167	14274
Y_2243	224.306	{4 Cts/S	21683	33.198	0.1531	21660	21707
Y_3600	360.073	{ 9 Cts/S	194470	1071.9	0.55122	193710	195230
Y_3710	371.030	{ 9 Cts/S	52917	252.63	0.47741	53095	52738

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=LLICV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:37:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0052	0.0007	13.61	0.0047	0.0057
Al3082	308.215 {1	In2306	ppm	0.1124	0.0105	9.328	0.1198	0.105
As1890	189.042 {4	Y_2243	ppm	0.0114	0.0005	3.955	0.0117	0.0111
B_2496	249.678 {1	Y_3710	ppm	0.011	0.0024	21.79	0.0093	0.0127
Ba4554	455.403 {	Y_3710	ppm	0.0098	0	0.0291	0.0098	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.5944	0.005	0.005
Ca3158	315.887 {1	In2306	ppm	0.1102	0.0023	2.118	0.1086	0.1119
Ca3181	318.128 {1	In2306	ppm	0.1124	0.0082	7.336	0.1183	0.1066
Cd2288	228.802 {4	Y_2243	ppm	0.0052	0.0003	6.504	0.005	0.0055
Co2286	228.616 {4	In2306	ppm	0.01	0.0004	3.767	0.0097	0.0102
Cr2677	267.716 {1	Y_3600	ppm	0.0106	0	0.3739	0.0106	0.0105
Cu3247	324.754 {1	Y_3600	ppm	0.0084	0.0001	1.544	0.0085	0.0083
Fe2404	240.488 {1	In2306	ppm	0.0973	0.0007	0.7089	0.0978	0.0968
K_7664	766.490 {	Y_3710	ppm	0.5855	0.012	2.054	0.577	0.594
K_7698	769.896 {	Y_3710	ppm	0.4996	0.0408	8.171	0.4707	0.5285
Li6707	670.784 {	Y_3710	ppm	0.0096	0.0002	2.511	0.0094	0.0097
Mg2790	279.079 {1	Y_3710	ppm	0.0795	0.0082	10.27	0.0738	0.0853
Mn2576	257.610 {1	Y_3600	ppm	0.0103	0.0003	2.484	0.0105	0.0101
Mn2576-2	257.610 {1	Y_3710	ppm	0.0099	0.0005	5.337	0.0095	0.0103
Mo2020	202.030 {4	Y_2243	ppm	0.0123	0.0007	5.845	0.0118	0.0128
Na5895	589.592 {	Y_3710	ppm	0.5965	0.0039	0.6561	0.5937	0.5992
Na8183	818.326 {	Y_3710	ppm	0.3337	0.0958	28.7	0.266	0.4014
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0002	2.316	0.01	0.0103
P_1782	178.284 {4	In2306	ppm	0.007	0.0015	21.32	0.0059	0.008
Pb2203	220.353 {4	In2306	ppm	0.0103	0.001	10.1	0.0096	0.0111
S_1820	182.034 {4	Y_2243	ppm	0.7438	0.1675	22.52	0.6253	0.8622
Sb2068	206.833 {4	Y_2243	ppm	0.0132	0.0019	14.36	0.0119	0.0145
Se1960	196.090 {4	Y_2243	ppm	0.0094	0.0008	8.049	0.0089	0.0099
Si2516	251.611 {1	Y_3710	ppm	0.012	0.0048	39.9	0.0086	0.0154
Sn1899	189.989 {4	In2306	ppm	0.0105	0.0007	6.247	0.0101	0.011
Sr4215	421.552 {	Y_3710	ppm	0.005	0.0001	1.825	0.0051	0.005
Ti3349	334.904 {1	Y_3600	ppm	0.0099	0.0003	3.065	0.0097	0.0101
Tl1908	190.856 {4	In2306	ppm	0.2236	0.0578	25.85	0.1827	0.2644
V_2924	292.402 {1	Y_3600	ppm	0.0098	0.0001	1.504	0.0097	0.0099
Zn2062	206.200 {4	In2306	ppm	0.01	0.0002	2.042	0.0098	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1035.9	6.6689	0.64377	1040.6	1031.2
In2306	230.606 {4	Cts/S	14991	137.26	0.9156	15089	14894
Y_2243	224.306 {4	Cts/S	22009	186.06	0.8454	22140	21877
Y_3600	360.073 {	Cts/S	197680	2493.6	1.2614	195920	199440
Y_3710	371.030 {	Cts/S	53354	360.84	0.67631	53609	53099

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=ICBIS
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:40:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0009	0.0002	18.38	0.001	0.0007
Al3082	308.215	{1 In2306	ppm	0.0165	0.0052	31.63	0.0128	0.0202
As1890	189.042	{4 Y_2243	ppm	0.0005	0.0007	130.6	0	0.001
B_2496	249.678	{1 Y_3710	ppm	0.0014	0.0002	13.23	0.0013	0.0016
Ba4554	455.403	{ ï Y_3710	ppm	0	0.0001	173.9	0	-0.0001
Be3130	313.042	{1 Y_3710	ppm	0	0	11.16	0	0
Ca3158	315.887	{1 In2306	ppm	0.0066	0	0.5301	0.0067	0.0066
Ca3181	318.128	{1 In2306	ppm	0.0086	0.0017	20.02	0.0098	0.0074
Cd2288	228.802	{4 Y_2243	ppm	0	0.0001	569.9	0.0001	0
Co2286	228.616	{4 In2306	ppm	0.0001	0	8.411	0	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0001	0.0001	45.81	0.0001	0.0002
Cu3247	324.754	{1 Y_3600	ppm	-0.0025	0.0003	11.63	-0.0023	-0.0027
Fe2404	240.488	{1 In2306	ppm	-0.0017	0.0012	74.5	-0.0025	-0.0008
K_7664	766.490	{ ¿ Y_3710	ppm	-0.0235	0.0087	36.88	-0.0297	-0.0174
K_7698	769.896	{ ¿ Y_3710	ppm	-0.1344	0.0273	20.29	-0.1152	-0.1537
Li6707	670.784	{ ß Y_3710	ppm	-0.0009	0.0005	49.77	-0.0006	-0.0013
Mg2790	279.079	{1 Y_3710	ppm	-0.007	0.003	42.48	-0.0049	-0.0091
Mn2576	257.610	{1 Y_3600	ppm	-0.0001	0.0001	139.5	-0.0001	0
Mn2576-2	257.610	{1 Y_3710	ppm	0.0002	0	4.686	0.0003	0.0002
Mo2020	202.030	{4 Y_2243	ppm	0.0002	0.0001	48.74	0.0001	0.0003
Na5895	589.592	{ ß Y_3710	ppm	-0.0089	0.0071	79.98	-0.0139	-0.0038
Na8183	818.326	{ ¿ Y_3710	ppm	-0.1393	0.1969	141.4	-0.0001	-0.2785
Ni2316	231.604	{4 In2306	ppm	0.0002	0	17.24	0.0002	0.0002
P_1782	178.284	{4 In2306	ppm	-0.0008	0.0005	65.75	-0.0012	-0.0004
Pb2203	220.353	{4 In2306	ppm	0	0.0006	1390	-0.0005	0.0004
S_1820	182.034	{4 Y_2243	ppm	0.2581	0.6631	256.9	0.727	-0.2108
Sb2068	206.833	{4 Y_2243	ppm	0.0001	0.0009	1140	0.0007	-0.0006
Se1960	196.090	{4 Y_2243	ppm	0.0002	0.0006	374.8	0.0006	-0.0003
Si2516	251.611	{1 Y_3710	ppm	0.0014	0.0037	260.2	0.004	-0.0012
Sn1899	189.989	{4 In2306	ppm	0.0003	0.0003	95.58	0.0001	0.0005
Sr4215	421.552	{ ß Y_3710	ppm	0	0	261.5	0	0
Ti3349	334.904	{1 Y_3600	ppm	-0.0002	0.0001	69.37	-0.0001	-0.0003
Tl1908	190.856	{4 In2306	ppm	0.0925	0.0313	33.83	0.0704	0.1147
V_2924	292.402	{1 Y_3600	ppm	-0.0001	0.0001	172.5	0	-0.0002
Zn2062	206.200	{4 In2306	ppm	0	0.0001	271	0	-0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1030.6	6.0394	0.58599	1026.4	1034.9
In2306	230.606	{4 Cts/S	15060	65.037	0.43185	15106	15014
Y_2243	224.306	{4 Cts/S	21991	87.004	0.39563	22053	21930
Y_3600	360.073	{ ° Cts/S	202020	3074.9	1.5221	204200	199850
Y_3710	371.030	{ ° Cts/S	53346	177.94	0.33356	53220	53472

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:42:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0013	0.0008	57.98	-0.0008	-0.0018
Al3082	308.215	{1 In2306	ppm	549.9	4.127	0.7505	547	552.8
As1890	189.042	{4 Y_2243	ppm	-0.0067	0.0003	3.963	-0.0069	-0.0065
B_2496	249.678	{1 Y_3710	ppm	0.0041	0.004	97.14	0.0013	0.007
Ba4554	455.403	{ 7 Y_3710	ppm	0.0004	0	4.285	0.0004	0.0004
Be3130	313.042	{1 Y_3710	ppm	0	0	2172	0	0
Ca3158	315.887	{1 In2306	ppm	507.5	4.653	0.9169	504.2	510.8
Ca3181	318.128	{1 In2306	ppm	521.6	5.179	0.9929	517.9	525.2
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0.0001	36.19	0.0002	0.0001
Co2286	228.616	{4 In2306	ppm	-0.0005	0.0002	42.99	-0.0006	-0.0003
Cr2677	267.716	{1 Y_3600	ppm	0.0033	0.0001	2.323	0.0033	0.0032
Cu3247	324.754	{1 Y_3600	ppm	0.0003	0.0001	16.32	0.0003	0.0004
Fe2404	240.488	{1 In2306	ppm	201.2	1.675	0.8327	200	202.4
K_7664	766.490	{ 4 Y_3710	ppm	-0.0224	0.0022	9.924	-0.0209	-0.024
K_7698	769.896	{ 4 Y_3710	ppm	-0.3712	0.0056	1.521	-0.3752	-0.3672
Li6707	670.784	{ 8 Y_3710	ppm	0.0165	0.0002	1.021	0.0164	0.0166
Mg2790	279.079	{1 Y_3710	ppm	525	1.76	0.3353	523.7	526.2
Mn2576	257.610	{1 Y_3600	ppm	-0.0053	0.0001	1.518	-0.0053	-0.0054
Mn2576-2	257.610	{1 Y_3710	ppm	-0.0047	0.0004	7.392	-0.005	-0.0045
Mo2020	202.030	{4 Y_2243	ppm	-0.0014	0.0003	23.58	-0.0011	-0.0016
Na5895	589.592	{ 8 Y_3710	ppm	0.0213	0.0031	14.66	0.0191	0.0235
Na8183	818.326	{ 4 Y_3710	ppm	0.8143	0.5828	71.57	0.4022	1.226
Ni2316	231.604	{4 In2306	ppm	0.0072	0.0002	2.928	0.0071	0.0074
P_1782	178.284	{4 In2306	ppm	0.0052	0.0002	4.4	0.005	0.0053
Pb2203	220.353	{4 In2306	ppm	0.0043	0.002	46.7	0.0057	0.0029
S_1820	182.034	{4 Y_2243	ppm	44.67	1.856	4.155	43.35	45.98
Sb2068	206.833	{4 Y_2243	ppm	-0.0129	0.003	23.23	-0.015	-0.0108
Se1960	196.090	{4 Y_2243	ppm	0.0023	0.0032	138.3	0.0001	0.0046
Si2516	251.611	{1 Y_3710	ppm	0.0038	0.0017	43.86	0.0026	0.005
Sn1899	189.989	{4 In2306	ppm	0.0034	0.0007	22.02	0.0028	0.0039
Sr4215	421.552	{ 8 Y_3710	ppm	0.0024	0	1.772	0.0023	0.0024
Ti3349	334.904	{1 Y_3600	ppm	0.0034	0.0004	11.5	0.0037	0.0031
Tl1908	190.856	{4 In2306	ppm	0.0291	0.0165	56.47	0.0175	0.0408
V_2924	292.402	{1 Y_3600	ppm	-0.0042	0.0003	7.392	-0.004	-0.0044
Zn2062	206.200	{4 In2306	ppm	0.0094	0.0003	2.839	0.0092	0.0096

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	877.95	7.3446	0.83657	883.14	872.76
In2306	230.606	{4 Cts/S	10530	119.73	1.1371	10614	10445
Y_2243	224.306	{4 Cts/S	19152	195.34	1.0199	19290	19014
Y_3600	360.073	{ 9 Cts/S	171100	3642.1	2.1286	168530	173680
Y_3710	371.030	{ 9 Cts/S	50520	131.37	0.26004	50613	50427

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:44:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5602	0.0203	3.626	0.5746	0.5459
Al3082	308.215 {1	In2306	ppm	554.6	1.141	0.2057	553.7	555.4
As1890	189.042 {4	Y_2243	ppm	1.001	0.0013	0.1314	1.002	1
B_2496	249.678 {1	Y_3710	ppm	0.9979	0.0061	0.6153	0.9936	1.002
Ba4554	455.403 {	Y_3710	ppm	0.9794	0.0034	0.347	0.9819	0.977
Be3130	313.042 {1	Y_3710	ppm	0.4867	0.0012	0.2517	0.4876	0.4859
Ca3158	315.887 {1	In2306	ppm	519.9	5.261	1.012	516.2	523.6
Ca3181	318.128 {1	In2306	ppm	527.9	2.594	0.4913	526	529.7
Cd2288	228.802 {4	Y_2243	ppm	0.5107	0.002	0.3877	0.5121	0.5093
Co2286	228.616 {4	In2306	ppm	1.024	0.0033	0.3241	1.027	1.022
Cr2677	267.716 {1	Y_3600	ppm	0.9943	0.0359	3.612	1.02	0.9689
Cu3247	324.754 {1	Y_3600	ppm	1.095	0.0435	3.968	1.126	1.065
Fe2404	240.488 {1	In2306	ppm	208.6	0.9487	0.4548	207.9	209.3
K_7664	766.490 {	Y_3710	ppm	10.36	0.0426	0.4112	10.39	10.33
K_7698	769.896 {	Y_3710	ppm	10.12	0.0308	0.3044	10.14	10.09
Li6707	670.784 {	Y_3710	ppm	1.049	0.0033	0.3114	1.052	1.047
Mg2790	279.079 {1	Y_3710	ppm	533	1.024	0.1921	533.7	532.3
Mn2576	257.610 {1	Y_3600	ppm	0.9714	0.042	4.324	1.001	0.9417
Mn2576-2	257.610 {1	Y_3710	ppm	0.933	0.0039	0.4165	0.9358	0.9303
Mo2020	202.030 {4	Y_2243	ppm	0.9249	0.0023	0.2474	0.9265	0.9233
Na5895	589.592 {	Y_3710	ppm	10.36	0.0513	0.4949	10.39	10.32
Na8183	818.326 {	Y_3710	ppm	10.87	0.2387	2.196	10.7	11.04
Ni2316	231.604 {4	In2306	ppm	1.021	0.0035	0.3451	1.024	1.019
P_1782	178.284 {4	In2306	ppm	1.161	0.0055	0.4696	1.165	1.157
Pb2203	220.353 {4	In2306	ppm	1.003	0.0087	0.8697	1.009	0.9968
S_1820	182.034 {4	Y_2243	ppm	45.51	0.4429	0.9731	45.2	45.82
Sb2068	206.833 {4	Y_2243	ppm	0.9623	0.0019	0.2014	0.9636	0.9609
Se1960	196.090 {4	Y_2243	ppm	0.9869	0.0021	0.212	0.9883	0.9854
Si2516	251.611 {1	Y_3710	ppm	0.9697	0.0095	0.9846	0.9764	0.9629
Sn1899	189.989 {4	In2306	ppm	1.032	0.0059	0.5703	1.036	1.028
Sr4215	421.552 {	Y_3710	ppm	0.4907	0.0016	0.3295	0.4918	0.4895
Ti3349	334.904 {1	Y_3600	ppm	1.025	0.0393	3.837	1.052	0.9967
Tl1908	190.856 {4	In2306	ppm	0.7724	0.0884	11.44	0.8349	0.7099
V_2924	292.402 {1	Y_3600	ppm	1.005	0.039	3.883	1.032	0.9771
Zn2062	206.200 {4	In2306	ppm	1.074	0.0036	0.3375	1.076	1.071

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	877.49	4.5658	0.52032	880.72	874.27
In2306	230.606 {4	Cts/S	10517	2.7342	0.026	10518	10515
Y_2243	224.306 {4	Cts/S	19259	1.4987	0.00778	19258	19260
Y_3600	360.073 {	Cts/S	164840	4975.8	3.0186	161320	168360
Y_3710	371.030 {	Cts/S	50276	44.106	0.08773	50245	50307

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:47:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.25	0.0022	0.8797	0.2516	0.2485
Al3082	308.215	{1 In2306	ppm	2.528	0.0067	0.2644	2.533	2.523
As1890	189.042	{4 Y_2243	ppm	0.5026	0.0148	2.944	0.4922	0.5131
B_2496	249.678	{1 Y_3710	ppm	0.5016	0.007	1.394	0.4967	0.5066
Ba4554	455.403	{ 7 Y_3710	ppm	0.4847	0.0023	0.4737	0.4831	0.4863
Be3130	313.042	{1 Y_3710	ppm	0.4993	0.0026	0.5119	0.4975	0.5011
Ca3158	315.887	{1 In2306	ppm	12.39	0.016	0.1289	12.38	12.4
Ca3181	318.128	{1 In2306	ppm	12.4	0.0795	0.6411	12.34	12.46
Cd2288	228.802	{4 Y_2243	ppm	0.4996	0.0168	3.371	0.4877	0.5115
Co2286	228.616	{4 In2306	ppm	0.5015	0.0168	3.347	0.4897	0.5134
Cr2677	267.716	{1 Y_3600	ppm	0.5103	0.0068	1.334	0.5151	0.5055
Cu3247	324.754	{1 Y_3600	ppm	0.4948	0.0031	0.6345	0.497	0.4925
Fe2404	240.488	{1 In2306	ppm	2.505	0.0218	0.8716	2.489	2.52
K_7664	766.490	{ 4 Y_3710	ppm	12.43	0.0365	0.2935	12.41	12.46
K_7698	769.896	{ 4 Y_3710	ppm	12.5	0.1316	1.053	12.41	12.59
Li6707	670.784	{ 8 Y_3710	ppm	0.4867	0.0024	0.5006	0.485	0.4884
Mg2790	279.079	{1 Y_3710	ppm	5.109	0.0247	0.4828	5.127	5.092
Mn2576	257.610	{1 Y_3600	ppm	0.5037	0.0043	0.8473	0.5067	0.5007
Mn2576-2	257.610	{1 Y_3710	ppm	0.5005	0.0001	0.0145	0.5004	0.5005
Mo2020	202.030	{4 Y_2243	ppm	0.5157	0.0165	3.196	0.504	0.5273
Na5895	589.592	{ 8 Y_3710	ppm	12.35	0.0736	0.5959	12.3	12.4
Na8183	818.326	{ 4 Y_3710	ppm	12.49	0.0268	0.2145	12.48	12.51
Ni2316	231.604	{4 In2306	ppm	0.5019	0.0163	3.239	0.4904	0.5134
P_1782	178.284	{4 In2306	ppm	0.4966	0.0148	2.982	0.4862	0.5071
Pb2203	220.353	{4 In2306	ppm	0.497	0.0161	3.232	0.4856	0.5083
S_1820	182.034	{4 Y_2243	ppm	-552.3	16.1	2.915	-541	-563.7
Sb2068	206.833	{4 Y_2243	ppm	0.5042	0.0179	3.541	0.4915	0.5168
Se1960	196.090	{4 Y_2243	ppm	0.4993	0.0138	2.758	0.4896	0.509
Si2516	251.611	{1 Y_3710	ppm	0.9543	0.0013	0.1321	0.9552	0.9534
Sn1899	189.989	{4 In2306	ppm	0.5063	0.0155	3.055	0.4954	0.5172
Sr4215	421.552	{ 8 Y_3710	ppm	0.2457	0.0017	0.7111	0.2445	0.247
Ti3349	334.904	{1 Y_3600	ppm	0.5094	0.0017	0.3328	0.5106	0.5082
Tl1908	190.856	{4 In2306	ppm	0.5682	0.0104	1.839	0.5609	0.5756
V_2924	292.402	{1 Y_3600	ppm	0.5118	0.0059	1.148	0.516	0.5077
Zn2062	206.200	{4 In2306	ppm	0.5054	0.015	2.959	0.4948	0.5159

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	989.23	4.2725	0.4319	992.25	986.2
In2306	230.606	{4 Cts/S	13930	380.76	2.7334	14199	13661
Y_2243	224.306	{4 Cts/S	21331	591.24	2.7717	21749	20913
Y_3600	360.073	{ 9 Cts/S	191710	887.39	0.46289	191080	192330
Y_3710	371.030	{ 9 Cts/S	51939	28.405	0.05469	51959	51918

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:49:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.006	0.0003	5.423	0.0062	0.0057
Al3082	308.215	{1 In2306	ppm	0.124	0.0054	4.363	0.1202	0.1278
As1890	189.042	{4 Y_2243	ppm	0.012	0.0003	2.724	0.0118	0.0122
B_2496	249.678	{1 Y_3710	ppm	0.0101	0.004	39.58	0.0073	0.0129
Ba4554	455.403	{ 7 Y_3710	ppm	0.0098	0.0003	2.863	0.01	0.0096
Be3130	313.042	{1 Y_3710	ppm	0.005	0	0.3351	0.005	0.0051
Ca3158	315.887	{1 In2306	ppm	0.1211	0.0044	3.646	0.118	0.1242
Ca3181	318.128	{1 In2306	ppm	0.1316	0.0391	29.73	0.1592	0.1039
Cd2288	228.802	{4 Y_2243	ppm	0.0052	0.0003	6.294	0.005	0.0055
Co2286	228.616	{4 In2306	ppm	0.01	0.0004	3.83	0.0098	0.0103
Cr2677	267.716	{1 Y_3600	ppm	0.0101	0.0007	6.526	0.0097	0.0106
Cu3247	324.754	{1 Y_3600	ppm	0.0079	0.001	12.12	0.0086	0.0073
Fe2404	240.488	{1 In2306	ppm	0.1017	0.0012	1.201	0.1009	0.1026
K_7664	766.490	{ 4 Y_3710	ppm	0.6031	0.0045	0.7491	0.5999	0.6063
K_7698	769.896	{ 4 Y_3710	ppm	0.5544	0.0282	5.083	0.5345	0.5743
Li6707	670.784	{ 8 Y_3710	ppm	0.0091	0.0009	10.34	0.0098	0.0085
Mg2790	279.079	{1 Y_3710	ppm	0.1076	0.0023	2.123	0.106	0.1092
Mn2576	257.610	{1 Y_3600	ppm	0.0102	0	0.0951	0.0102	0.0102
Mn2576-2	257.610	{1 Y_3710	ppm	0.01	0.0006	5.559	0.0096	0.0104
Mo2020	202.030	{4 Y_2243	ppm	0.012	0.0011	8.735	0.0113	0.0128
Na5895	589.592	{ 8 Y_3710	ppm	0.5993	0.0023	0.3857	0.5977	0.6009
Na8183	818.326	{ 4 Y_3710	ppm	0.5074	0.0378	7.449	0.4806	0.5341
Ni2316	231.604	{4 In2306	ppm	0.0102	0.0005	4.818	0.0098	0.0105
P_1782	178.284	{4 In2306	ppm	0.0063	0.0005	7.982	0.006	0.0067
Pb2203	220.353	{4 In2306	ppm	0.0093	0.0007	7.501	0.0088	0.0098
S_1820	182.034	{4 Y_2243	ppm	0.2545	0.0291	11.41	0.2751	0.234
Sb2068	206.833	{4 Y_2243	ppm	0.0136	0.0017	12.49	0.0124	0.0148
Se1960	196.090	{4 Y_2243	ppm	0.0114	0.0011	9.576	0.0106	0.0122
Si2516	251.611	{1 Y_3710	ppm	0.0161	0.0015	9.477	0.0172	0.015
Sn1899	189.989	{4 In2306	ppm	0.0104	0.0008	7.936	0.0098	0.011
Sr4215	421.552	{ 8 Y_3710	ppm	0.0049	0.0001	2.299	0.005	0.0049
Ti3349	334.904	{1 Y_3600	ppm	0.01	0.0001	1.255	0.0101	0.0099
Tl1908	190.856	{4 In2306	ppm	0.1374	0.0315	22.95	0.1151	0.1597
V_2924	292.402	{1 Y_3600	ppm	0.0103	0.0006	5.824	0.0107	0.0099
Zn2062	206.200	{4 In2306	ppm	0.0101	0.0004	4.024	0.0098	0.0104

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1012.2	4.202	0.41514	1009.2	1015.2
In2306	230.606	{4 Cts/S	15010	136.98	0.91258	15107	14913
Y_2243	224.306	{4 Cts/S	22145	213.68	0.96492	22296	21994
Y_3600	360.073	{ 9 Cts/S	199490	231.06	0.11582	199660	199330
Y_3710	371.030	{ 9 Cts/S	52262	188.93	0.3615	52396	52128

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:51:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0002	43.48	0.0006	0.0003
Al3082	308.215 {1	In2306	ppm	0.0258	0.0135	52.26	0.0162	0.0353
As1890	189.042 {4	Y_2243	ppm	0.001	0.0003	31.12	0.0012	0.0008
B_2496	249.678 {1	Y_3710	ppm	0.0014	0.0038	262	0.0041	-0.0012
Ba4554	455.403 {	Y_3710	ppm	0	0	539.1	0	0
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	761.2	0	0
Ca3158	315.887 {1	In2306	ppm	0.0121	0.0046	38.21	0.0088	0.0154
Ca3181	318.128 {1	In2306	ppm	0.0001	0.0059	7134	-0.0041	0.0043
Cd2288	228.802 {4	Y_2243	ppm	0	0	2112	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0	43.62	0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0004	239.4	-0.0001	0.0005
Cu3247	324.754 {1	Y_3600	ppm	-0.0019	0.0001	4.56	-0.002	-0.0018
Fe2404	240.488 {1	In2306	ppm	0.0012	0.001	82.57	0.0019	0.0005
K_7664	766.490 {	Y_3710	ppm	-0.0025	0.003	119.3	-0.0004	-0.0046
K_7698	769.896 {	Y_3710	ppm	-0.1411	0.0663	46.98	-0.1879	-0.0942
Li6707	670.784 {	Y_3710	ppm	-0.0011	0.0009	82.52	-0.0005	-0.0018
Mg2790	279.079 {1	Y_3710	ppm	0.007	0.0126	181.1	-0.002	0.0159
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	144.1	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0002	0.0001	57.3	-0.0002	-0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0	21.08	0.0002	0.0002
Na5895	589.592 {	Y_3710	ppm	-0.0058	0.0064	110	-0.0013	-0.0103
Na8183	818.326 {	Y_3710	ppm	-0.2478	0.2005	80.93	-0.106	-0.3896
Ni2316	231.604 {4	In2306	ppm	-0.0001	0	34.28	-0.0002	-0.0001
P_1782	178.284 {4	In2306	ppm	-0.0008	0.0001	6.799	-0.0008	-0.0009
Pb2203	220.353 {4	In2306	ppm	0.0002	0.0001	61.23	0.0002	0.0001
S_1820	182.034 {4	Y_2243	ppm	0.4788	0.6668	139.2	0.0074	0.9503
Sb2068	206.833 {4	Y_2243	ppm	0	0.0003	9588	0.0002	-0.0002
Se1960	196.090 {4	Y_2243	ppm	-0.0016	0.0014	91	-0.0006	-0.0026
Si2516	251.611 {1	Y_3710	ppm	-0.0018	0.0086	486.9	-0.0079	0.0043
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0002	93.65	0.0001	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	104.6	0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0003	0.0003	96.99	-0.0001	-0.0005
Tl1908	190.856 {4	In2306	ppm	0.0464	0.0174	37.51	0.0341	0.0587
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0003	121	0.0004	0
Zn2062	206.200 {4	In2306	ppm	0	0	18.77	0	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1014.2	0.78569	0.07747	1013.6	1014.7
In2306	230.606 {4	Cts/S	14946	238.92	1.5985	14777	15115
Y_2243	224.306 {4	Cts/S	21854	344.7	1.5773	21610	22097
Y_3600	360.073 {	Cts/S	197290	511.19	0.25911	197650	196920
Y_3710	371.030 {	Cts/S	52369	308.8	0.58965	52151	52588

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-1-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:54:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0015	0.0003	21.59	-0.0018	-0.0013
Al3082	308.215	{1 In2306	ppm	4.32	0.0105	0.2438	4.327	4.312
As1890	189.042	{4 Y_2243	ppm	0.0911	0.0007	0.7867	0.0906	0.0916
B_2496	249.678	{1 Y_3710	ppm	0.0061	0.0044	71.85	0.003	0.0091
Ba4554	455.403	{ ï Y_3710	ppm	0.0467	0.0001	0.1425	0.0466	0.0467
Be3130	313.042	{1 Y_3710	ppm	0.0006	0.0001	10.16	0.0005	0.0006
Ca3158	315.887	{1 In2306	ppm	506.1	2.56	0.5058	507.9	504.3
Ca3181	318.128	{1 In2306	ppm	516.7	1.349	0.261	517.7	515.8
Cd2288	228.802	{4 Y_2243	ppm	1.964	0.0095	0.4814	1.957	1.971
Co2286	228.616	{4 In2306	ppm	0.0072	0	0.5413	0.0073	0.0072
Cr2677	267.716	{1 Y_3600	ppm	0.0188	0.0006	3.012	0.0192	0.0184
Cu3247	324.754	{1 Y_3600	ppm	0.362	0.0042	1.157	0.365	0.3591
Fe2404	240.488	{1 In2306	ppm	19.99	0.0239	0.1196	20.01	19.97
K_7664	766.490	{ ⁄ Y_3710	ppm	0.7162	0.036	5.025	0.6907	0.7416
K_7698	769.896	{ ⁄ Y_3710	ppm	0.5784	0.0034	0.5805	0.576	0.5807
Li6707	670.784	{ ß Y_3710	ppm	0.0195	0.0005	2.739	0.0191	0.0199
Mg2790	279.079	{1 Y_3710	ppm	75.31	0.385	0.5113	75.04	75.58
Mn2576	257.610	{1 Y_3600	ppm	0.2789	0.0035	1.265	0.2814	0.2764
Mn2576-2	257.610	{1 Y_3710	ppm	0.2792	0.0015	0.5459	0.2802	0.2781
Mo2020	202.030	{4 Y_2243	ppm	0.0007	0.0001	17.5	0.0007	0.0008
Na5895	589.592	{ ß Y_3710	ppm	1.166	0.0027	0.2324	1.164	1.167
Na8183	818.326	{ ⁄ Y_3710	ppm	1.212	0.1753	14.47	1.088	1.336
Ni2316	231.604	{4 In2306	ppm	0.1647	0.0003	0.2079	0.1645	0.165
P_1782	178.284	{4 In2306	ppm	0.5534	0.0024	0.4424	0.5517	0.5551
Pb2203	220.353	{4 In2306	ppm	5.581	0.0326	0.5833	5.558	5.604
S_1820	182.034	{4 Y_2243	ppm	-947	6.074	0.6413	-942.7	-951.3
Sb2068	206.833	{4 Y_2243	ppm	0.0521	0.0017	3.336	0.0533	0.0508
Se1960	196.090	{4 Y_2243	ppm	0.0052	0.0001	1.062	0.0051	0.0052
Si2516	251.611	{1 Y_3710	ppm	1.268	0.0086	0.678	1.275	1.262
Sn1899	189.989	{4 In2306	ppm	0.1947	0.0001	0.0649	0.1948	0.1946
Sr4215	421.552	{ ß Y_3710	ppm	0.4688	0.0002	0.0469	0.4686	0.4689
Ti3349	334.904	{1 Y_3600	ppm	0.0489	0.0007	1.456	0.0494	0.0484
Tl1908	190.856	{4 In2306	ppm	0.0059	0.0101	171.4	-0.0013	0.013
V_2924	292.402	{1 Y_3600	ppm	0.0153	0.0005	3.099	0.0156	0.015
Zn2062	206.200	{4 In2306	ppm	0.415	0.0026	0.6349	0.4131	0.4169

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	924.63	2.9308	0.31697	922.56	926.7
In2306	230.606	{4 Cts/S	11767	61.13	0.5195	11810	11724
Y_2243	224.306	{4 Cts/S	19875	103.69	0.52168	19949	19802
Y_3600	360.073	{ ¢ Cts/S	178980	1908.7	1.0664	177630	180330
Y_3710	371.030	{ ¢ Cts/S	50712	5.6692	0.01118	50708	50716

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-2-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:56:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0	0.0006	2595	-0.0004	0.0004
Al3082	308.215	{1 In2306	ppm	18.7	0.2193	1.173	18.85	18.54
As1890	189.042	{4 Y_2243	ppm	0.1195	0.0017	1.457	0.1182	0.1207
B_2496	249.678	{1 Y_3710	ppm	0.0101	0.0051	50.69	0.0065	0.0137
Ba4554	455.403	{ 7 Y_3710	ppm	0.1973	0.0041	2.061	0.2002	0.1945
Be3130	313.042	{1 Y_3710	ppm	0.0014	0.0001	5.537	0.0014	0.0013
Ca3158	315.887	{1 In2306	ppm	180.2	1.764	0.9788	181.5	179
Ca3181	318.128	{1 In2306	ppm	180.4	1.993	1.105	181.8	179
Cd2288	228.802	{4 Y_2243	ppm	0.0196	0.0007	3.659	0.0191	0.0201
Co2286	228.616	{4 In2306	ppm	0.0166	0.0003	1.774	0.0164	0.0168
Cr2677	267.716	{1 Y_3600	ppm	0.0296	0.0002	0.8186	0.0295	0.0298
Cu3247	324.754	{1 Y_3600	ppm	0.0687	0.0003	0.4013	0.0685	0.0689
Fe2404	240.488	{1 In2306	ppm	25.9	0.2035	0.7858	26.04	25.76
K_7664	766.490	{ 4 Y_3710	ppm	2.652	0.0918	3.463	2.717	2.587
K_7698	769.896	{ 4 Y_3710	ppm	2.589	0.0635	2.452	2.634	2.544
Li6707	670.784	{ 8 Y_3710	ppm	0.0138	0.0009	6.615	0.0145	0.0132
Mg2790	279.079	{1 Y_3710	ppm	3.202	0.0809	2.527	3.26	3.145
Mn2576	257.610	{1 Y_3600	ppm	0.7164	0.0015	0.2105	0.7153	0.7174
Mn2576-2	257.610	{1 Y_3710	ppm	0.7309	0.0163	2.224	0.7424	0.7194
Mo2020	202.030	{4 Y_2243	ppm	0.0031	0.0001	3.088	0.0032	0.0031
Na5895	589.592	{ 8 Y_3710	ppm	11.02	0.2338	2.121	11.19	10.85
Na8183	818.326	{ 4 Y_3710	ppm	11.15	0.2423	2.173	11.32	10.98
Ni2316	231.604	{4 In2306	ppm	0.0686	0.0012	1.809	0.0677	0.0695
P_1782	178.284	{4 In2306	ppm	1.231	0.0205	1.665	1.217	1.246
Pb2203	220.353	{4 In2306	ppm	10.98	0.1718	1.564	10.86	11.11
S_1820	182.034	{4 Y_2243	ppm	-1439	19.3	1.341	-1425	-1453
Sb2068	206.833	{4 Y_2243	ppm	0.1604	0.0027	1.674	0.1585	0.1623
Se1960	196.090	{4 Y_2243	ppm	0.0002	0.0005	216.3	0.0006	-0.0001
Si2516	251.611	{1 Y_3710	ppm	1.532	0.0464	3.029	1.565	1.5
Sn1899	189.989	{4 In2306	ppm	0.0465	0.0009	1.854	0.0459	0.0471
Sr4215	421.552	{ 8 Y_3710	ppm	0.5698	0.0098	1.723	0.5768	0.5629
Ti3349	334.904	{1 Y_3600	ppm	0.033	0.0003	0.7894	0.0328	0.0331
Tl1908	190.856	{4 In2306	ppm	-0.0185	0.008	43.57	-0.0242	-0.0128
V_2924	292.402	{1 Y_3600	ppm	0.0943	0.0007	0.7705	0.0938	0.0948
Zn2062	206.200	{4 In2306	ppm	0.1977	0.0034	1.71	0.1953	0.2001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	971	7.9238	0.81604	965.4	976.61
In2306	230.606	{4 Cts/S	12910	146.85	1.1375	13013	12806
Y_2243	224.306	{4 Cts/S	21209	223.1	1.0519	21367	21051
Y_3600	360.073	{ 9 Cts/S	191660	651.71	0.34003	191200	192130
Y_3710	371.030	{ 9 Cts/S	52583	1126	2.1413	51787	53379

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-6-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 13:58:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0	0.0008	4857	-0.0006	0.0006
Al3082	308.215	{1 In2306	ppm	16.12	0.3044	1.888	16.33	15.9
As1890	189.042	{4 Y_2243	ppm	0.0354	0.0011	3.169	0.0362	0.0346
B_2496	249.678	{1 Y_3710	ppm	0.0105	0.0015	14.28	0.0115	0.0094
Ba4554	455.403	{ 7 Y_3710	ppm	0.1373	0.003	2.212	0.1395	0.1352
Be3130	313.042	{1 Y_3710	ppm	0.0014	0	1.682	0.0014	0.0014
Ca3158	315.887	{1 In2306	ppm	155.2	2.293	1.478	156.8	153.5
Ca3181	318.128	{1 In2306	ppm	155.7	3.183	2.044	157.9	153.4
Cd2288	228.802	{4 Y_2243	ppm	0.0613	0.0002	0.3829	0.0611	0.0614
Co2286	228.616	{4 In2306	ppm	0.0109	0.0001	0.9275	0.0108	0.011
Cr2677	267.716	{1 Y_3600	ppm	0.0235	0.0001	0.4367	0.0236	0.0234
Cu3247	324.754	{1 Y_3600	ppm	0.05	0	0.0586	0.05	0.05
Fe2404	240.488	{1 In2306	ppm	28.75	0.5964	2.075	29.17	28.33
K_7664	766.490	{ 4 Y_3710	ppm	2.434	0.0407	1.671	2.463	2.405
K_7698	769.896	{ 4 Y_3710	ppm	2.344	0.0838	3.574	2.403	2.285
Li6707	670.784	{ 8 Y_3710	ppm	0.014	0.0003	2.445	0.0143	0.0138
Mg2790	279.079	{1 Y_3710	ppm	2.713	0.0373	1.376	2.74	2.687
Mn2576	257.610	{1 Y_3600	ppm	0.4731	0.0001	0.029	0.473	0.4732
Mn2576-2	257.610	{1 Y_3710	ppm	0.4745	0.0075	1.585	0.4798	0.4692
Mo2020	202.030	{4 Y_2243	ppm	0.0042	0.0001	2.039	0.0041	0.0042
Na5895	589.592	{ 8 Y_3710	ppm	5.561	0.1583	2.848	5.673	5.449
Na8183	818.326	{ 4 Y_3710	ppm	5.66	0.1622	2.867	5.774	5.545
Ni2316	231.604	{4 In2306	ppm	0.0328	0.0004	1.354	0.0325	0.0331
P_1782	178.284	{4 In2306	ppm	1.48	0.0058	0.3931	1.476	1.484
Pb2203	220.353	{4 In2306	ppm	14.16	0.0445	0.3145	14.12	14.19
S_1820	182.034	{4 Y_2243	ppm	-5874	29.17	0.4966	-5854	-5895
Sb2068	206.833	{4 Y_2243	ppm	0.0252	0.0009	3.457	0.0258	0.0246
Se1960	196.090	{4 Y_2243	ppm	0.0028	0.002	73.11	0.0013	0.0042
Si2516	251.611	{1 Y_3710	ppm	1.223	0.0502	4.108	1.258	1.187
Sn1899	189.989	{4 In2306	ppm	0.054	0	0.0287	0.054	0.054
Sr4215	421.552	{ 8 Y_3710	ppm	0.4965	0.0108	2.171	0.5042	0.4889
Ti3349	334.904	{1 Y_3600	ppm	0.0398	0.0003	0.7336	0.04	0.0396
Tl1908	190.856	{4 In2306	ppm	-0.0311	0.0051	16.3	-0.0347	-0.0275
V_2924	292.402	{1 Y_3600	ppm	0.0565	0.0002	0.3722	0.0567	0.0564
Zn2062	206.200	{4 In2306	ppm	0.0988	0.0004	0.3591	0.0985	0.099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	976.28	9.961	1.0203	969.24	983.33
In2306	230.606	{4 Cts/S	13240	58.905	0.44489	13282	13199
Y_2243	224.306	{4 Cts/S	21560	119.3	0.55333	21645	21476
Y_3600	360.073	{ 9 Cts/S	191520	515.93	0.26939	191150	191880
Y_3710	371.030	{ 9 Cts/S	52954	628.1	1.1861	52510	53398

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-6b du@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:01:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0005	0.0005	103.9	-0.0001	-0.0009
Al3082	308.215	{1 In2306	ppm	16.1	0.0282	0.1753	16.12	16.08
As1890	189.042	{4 Y_2243	ppm	0.0291	0.0003	1.044	0.0288	0.0293
B_2496	249.678	{1 Y_3710	ppm	0.0081	0.0028	35.17	0.0061	0.0101
Ba4554	455.403	{ 7 Y_3710	ppm	0.1733	0.0003	0.1978	0.1731	0.1735
Be3130	313.042	{1 Y_3710	ppm	0.0013	0	3.717	0.0013	0.0014
Ca3158	315.887	{1 In2306	ppm	204.9	0.1973	0.0963	204.8	205.1
Ca3181	318.128	{1 In2306	ppm	204.3	0.1538	0.0753	204.4	204.2
Cd2288	228.802	{4 Y_2243	ppm	0.0722	0.0001	0.1165	0.0721	0.0722
Co2286	228.616	{4 In2306	ppm	0.0124	0	0.197	0.0123	0.0124
Cr2677	267.716	{1 Y_3600	ppm	0.0231	0.0001	0.4495	0.023	0.0231
Cu3247	324.754	{1 Y_3600	ppm	0.0291	0.0003	0.9088	0.0293	0.0289
Fe2404	240.488	{1 In2306	ppm	33.24	0.1358	0.4087	33.14	33.33
K_7664	766.490	{ 4 Y_3710	ppm	2.277	0.0078	0.341	2.283	2.272
K_7698	769.896	{ 4 Y_3710	ppm	2.183	0.0192	0.8813	2.169	2.196
Li6707	670.784	{ 8 Y_3710	ppm	0.0157	0.0002	1.187	0.0158	0.0156
Mg2790	279.079	{1 Y_3710	ppm	2.678	0.0099	0.3681	2.685	2.671
Mn2576	257.610	{1 Y_3600	ppm	0.5774	0.0016	0.2695	0.5785	0.5763
Mn2576-2	257.610	{1 Y_3710	ppm	0.5781	0.0012	0.2104	0.5773	0.579
Mo2020	202.030	{4 Y_2243	ppm	0.0027	0.0001	3.875	0.0028	0.0026
Na5895	589.592	{ 8 Y_3710	ppm	5.4	0.0077	0.1434	5.395	5.406
Na8183	818.326	{ 4 Y_3710	ppm	5.49	0.1277	2.326	5.399	5.58
Ni2316	231.604	{4 In2306	ppm	0.0402	0.0003	0.6712	0.04	0.0404
P_1782	178.284	{4 In2306	ppm	1.531	0.0007	0.0456	1.531	1.53
Pb2203	220.353	{4 In2306	ppm	6.049	0.0086	0.1425	6.043	6.055
S_1820	182.034	{4 Y_2243	ppm	-2931	13.45	0.4589	-2921	-2940
Sb2068	206.833	{4 Y_2243	ppm	0.0146	0.0009	6.091	0.0152	0.0139
Se1960	196.090	{4 Y_2243	ppm	0.0007	0.0007	106.6	0.0002	0.0012
Si2516	251.611	{1 Y_3710	ppm	1.289	0.0033	0.2558	1.287	1.292
Sn1899	189.989	{4 In2306	ppm	0.0209	0.0006	2.792	0.0213	0.0205
Sr4215	421.552	{ 8 Y_3710	ppm	0.6212	0.0014	0.2176	0.6203	0.6222
Ti3349	334.904	{1 Y_3600	ppm	0.0397	0	0.1059	0.0397	0.0397
Tl1908	190.856	{4 In2306	ppm	-0.0395	0.0025	6.397	-0.0413	-0.0377
V_2924	292.402	{1 Y_3600	ppm	0.068	0.0001	0.1827	0.0679	0.0681
Zn2062	206.200	{4 In2306	ppm	0.1049	0.0002	0.2109	0.1051	0.1047

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	971.97	3.3633	0.34603	974.35	969.59
In2306	230.606	{4 Cts/S	12996	29.243	0.22501	13017	12975
Y_2243	224.306	{4 Cts/S	21260	72.253	0.33985	21311	21209
Y_3600	360.073	{ 9 Cts/S	189560	414.74	0.21879	189850	189270
Y_3710	371.030	{ 9 Cts/S	52900	93.601	0.17694	52966	52834

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-6c ms@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:03:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0478	0.0019	3.933	0.0491	0.0465
Al3082	308.215	{1 In2306	ppm	25.38	0.3835	1.511	25.11	25.65
As1890	189.042	{4 Y_2243	ppm	0.1277	0.0015	1.174	0.1287	0.1266
B_2496	249.678	{1 Y_3710	ppm	0.0851	0.0045	5.245	0.0819	0.0882
Ba4554	455.403	{ 7 Y_3710	ppm	0.3409	0.0044	1.28	0.3379	0.344
Be3130	313.042	{1 Y_3710	ppm	0.0535	0.0004	0.7831	0.0532	0.0538
Ca3158	315.887	{1 In2306	ppm	217.8	2.601	1.194	215.9	219.6
Ca3181	318.128	{1 In2306	ppm	216.4	2.725	1.259	214.5	218.3
Cd2288	228.802	{4 Y_2243	ppm	0.1223	0.0007	0.5923	0.1228	0.1218
Co2286	228.616	{4 In2306	ppm	0.1174	0.0004	0.3238	0.1177	0.1171
Cr2677	267.716	{1 Y_3600	ppm	0.1267	0.005	3.949	0.1303	0.1232
Cu3247	324.754	{1 Y_3600	ppm	0.1268	0.0053	4.145	0.1305	0.1231
Fe2404	240.488	{1 In2306	ppm	35.18	0.5402	1.536	34.79	35.56
K_7664	766.490	{ 4 Y_3710	ppm	4.073	0.0576	1.415	4.032	4.113
K_7698	769.896	{ 4 Y_3710	ppm	4.002	0.0501	1.252	3.967	4.038
Li6707	670.784	{ 8 Y_3710	ppm	0.0733	0.0013	1.721	0.0724	0.0742
Mg2790	279.079	{1 Y_3710	ppm	4.988	0.0528	1.059	4.951	5.026
Mn2576	257.610	{1 Y_3600	ppm	0.6591	0.0279	4.241	0.6788	0.6393
Mn2576-2	257.610	{1 Y_3710	ppm	0.6976	0.0061	0.8742	0.6933	0.7019
Mo2020	202.030	{4 Y_2243	ppm	0.0912	0.0009	0.991	0.0919	0.0906
Na5895	589.592	{ 8 Y_3710	ppm	6.971	0.0854	1.225	6.911	7.031
Na8183	818.326	{ 4 Y_3710	ppm	7.083	0.091	1.285	7.019	7.148
Ni2316	231.604	{4 In2306	ppm	0.1448	0.0008	0.5596	0.1454	0.1443
P_1782	178.284	{4 In2306	ppm	1.493	0.0075	0.5009	1.498	1.488
Pb2203	220.353	{4 In2306	ppm	6.803	0.0363	0.5339	6.828	6.777
S_1820	182.034	{4 Y_2243	ppm	-5782	50	0.8649	-5817	-5746
Sb2068	206.833	{4 Y_2243	ppm	0.0501	0.0005	0.9282	0.0504	0.0498
Se1960	196.090	{4 Y_2243	ppm	0.1001	0.0009	0.8861	0.1007	0.0994
Si2516	251.611	{1 Y_3710	ppm	1.433	0.0003	0.0232	1.433	1.434
Sn1899	189.989	{4 In2306	ppm	0.124	0.0002	0.1436	0.1241	0.1239
Sr4215	421.552	{ 8 Y_3710	ppm	0.6799	0.0096	1.409	0.6731	0.6867
Ti3349	334.904	{1 Y_3600	ppm	0.0835	0.0042	5.008	0.0865	0.0806
Tl1908	190.856	{4 In2306	ppm	0.0342	0.0096	28.15	0.0411	0.0274
V_2924	292.402	{1 Y_3600	ppm	0.1717	0.0061	3.546	0.176	0.1674
Zn2062	206.200	{4 In2306	ppm	0.2194	0.0008	0.3656	0.22	0.2189

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	955.42	9.5987	1.0047	962.21	948.63
In2306	230.606	{4 Cts/S	12696	51.315	0.4042	12659	12732
Y_2243	224.306	{4 Cts/S	21071	144.78	0.68709	20969	21173
Y_3600	360.073	{ 9 Cts/S	194370	5853.4	3.0114	190240	198510
Y_3710	371.030	{ 9 Cts/S	52352	215.91	0.41242	52504	52199

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b6d msd@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:05:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0492	0.0024	4.861	0.0475	0.0509
Al3082	308.215	{1 In2306	ppm	21.49	0.0286	0.133	21.51	21.47
As1890	189.042	{4 Y_2243	ppm	0.1379	0.0024	1.724	0.1396	0.1363
B_2496	249.678	{1 Y_3710	ppm	0.08	0	0.0125	0.0801	0.08
Ba4554	455.403	{ 7 Y_3710	ppm	0.3338	0.0003	0.0767	0.3337	0.334
Be3130	313.042	{1 Y_3710	ppm	0.0529	0.0001	0.1575	0.0529	0.0528
Ca3158	315.887	{1 In2306	ppm	157.2	0.4735	0.3012	156.9	157.5
Ca3181	318.128	{1 In2306	ppm	156.9	0.306	0.195	156.7	157.2
Cd2288	228.802	{4 Y_2243	ppm	0.1197	0.0033	2.727	0.122	0.1173
Co2286	228.616	{4 In2306	ppm	0.12	0.0036	3.009	0.1225	0.1174
Cr2677	267.716	{1 Y_3600	ppm	0.1301	0.0069	5.264	0.1253	0.135
Cu3247	324.754	{1 Y_3600	ppm	0.1463	0.0073	5.008	0.1411	0.1515
Fe2404	240.488	{1 In2306	ppm	37.06	0.0709	0.1913	37.11	37.01
K_7664	766.490	{ 4 Y_3710	ppm	3.765	0.0017	0.044	3.767	3.764
K_7698	769.896	{ 4 Y_3710	ppm	3.684	0.0118	0.3213	3.675	3.692
Li6707	670.784	{ 8 Y_3710	ppm	0.0677	0.0003	0.4982	0.0679	0.0674
Mg2790	279.079	{1 Y_3710	ppm	4.216	0.0275	0.652	4.236	4.197
Mn2576	257.610	{1 Y_3600	ppm	0.7442	0.042	5.641	0.7146	0.7739
Mn2576-2	257.610	{1 Y_3710	ppm	0.731	0.0032	0.4381	0.7288	0.7333
Mo2020	202.030	{4 Y_2243	ppm	0.0921	0.0024	2.599	0.0938	0.0904
Na5895	589.592	{ 8 Y_3710	ppm	6.3	0.0141	0.2246	6.29	6.31
Na8183	818.326	{ 4 Y_3710	ppm	6.38	0.0988	1.548	6.31	6.45
Ni2316	231.604	{4 In2306	ppm	0.1464	0.0043	2.951	0.1495	0.1434
P_1782	178.284	{4 In2306	ppm	1.391	0.0348	2.505	1.416	1.367
Pb2203	220.353	{4 In2306	ppm	12.18	0.327	2.685	12.41	11.95
S_1820	182.034	{4 Y_2243	ppm	-4975	112	2.251	-5054	-4895
Sb2068	206.833	{4 Y_2243	ppm	0.0638	0.0018	2.79	0.0651	0.0626
Se1960	196.090	{4 Y_2243	ppm	0.0975	0.0025	2.552	0.0992	0.0957
Si2516	251.611	{1 Y_3710	ppm	1.339	0.006	0.4471	1.335	1.344
Sn1899	189.989	{4 In2306	ppm	0.1347	0.0039	2.898	0.1375	0.1319
Sr4215	421.552	{ 8 Y_3710	ppm	0.6243	0.0004	0.0602	0.6241	0.6246
Ti3349	334.904	{1 Y_3600	ppm	0.0889	0.0052	5.884	0.0852	0.0926
Tl1908	190.856	{4 In2306	ppm	0.0507	0.0099	19.45	0.0576	0.0437
V_2924	292.402	{1 Y_3600	ppm	0.1697	0.0095	5.613	0.163	0.1765
Zn2062	206.200	{4 In2306	ppm	0.2282	0.0065	2.859	0.2328	0.2236

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	981.15	2.1177	0.21583	982.65	979.65
In2306	230.606	{4 Cts/S	13160	281.53	2.1393	12961	13359
Y_2243	224.306	{4 Cts/S	21557	394.97	1.8322	21278	21837
Y_3600	360.073	{ 9 Cts/S	189960	8669.7	4.5639	196090	183830
Y_3710	371.030	{ 9 Cts/S	53313	92.857	0.17417	53379	53247

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-7-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:07:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.0005	546.9	-0.0005	0.0003
Al3082	308.215	{1 In2306	ppm	16.15	0.0784	0.4855	16.2	16.09
As1890	189.042	{4 Y_2243	ppm	0.051	0.0013	2.495	0.0519	0.0501
B_2496	249.678	{1 Y_3710	ppm	0.0133	0.0041	30.53	0.0104	0.0161
Ba4554	455.403	{ 7 Y_3710	ppm	0.1576	0.0003	0.1593	0.1574	0.1578
Be3130	313.042	{1 Y_3710	ppm	0.0011	0	1.046	0.001	0.0011
Ca3158	315.887	{1 In2306	ppm	324.7	0.6053	0.1864	325.1	324.3
Ca3181	318.128	{1 In2306	ppm	324.9	1.487	0.4576	326	323.9
Cd2288	228.802	{4 Y_2243	ppm	0.6534	0.0102	1.556	0.6606	0.6462
Co2286	228.616	{4 In2306	ppm	0.0102	0	0.1314	0.0102	0.0101
Cr2677	267.716	{1 Y_3600	ppm	0.029	0.0005	1.561	0.0287	0.0293
Cu3247	324.754	{1 Y_3600	ppm	0.2076	0.0004	0.1797	0.2073	0.2078
Fe2404	240.488	{1 In2306	ppm	23.08	0.0828	0.3588	23.14	23.02
K_7664	766.490	{ 4 Y_3710	ppm	2.251	0.0171	0.7596	2.238	2.263
K_7698	769.896	{ 4 Y_3710	ppm	2.163	0.0016	0.0732	2.164	2.162
Li6707	670.784	{ 8 Y_3710	ppm	0.0182	0.0005	2.87	0.0186	0.0178
Mg2790	279.079	{1 Y_3710	ppm	12.25	0.0264	0.2151	12.27	12.24
Mn2576	257.610	{1 Y_3600	ppm	0.748	0.0023	0.3033	0.7464	0.7496
Mn2576-2	257.610	{1 Y_3710	ppm	0.7464	0.003	0.3988	0.7485	0.7443
Mo2020	202.030	{4 Y_2243	ppm	0.0018	0.0001	7.028	0.0019	0.0017
Na5895	589.592	{ 8 Y_3710	ppm	10.25	0.0297	0.2901	10.23	10.27
Na8183	818.326	{ 4 Y_3710	ppm	10.22	0.2264	2.216	10.06	10.38
Ni2316	231.604	{4 In2306	ppm	0.0632	0.001	1.595	0.0639	0.0625
P_1782	178.284	{4 In2306	ppm	0.7724	0.0095	1.225	0.7791	0.7657
Pb2203	220.353	{4 In2306	ppm	7.982	0.1167	1.462	8.065	7.9
S_1820	182.034	{4 Y_2243	ppm	-2091	34.57	1.653	-2116	-2067
Sb2068	206.833	{4 Y_2243	ppm	0.035	0.001	2.717	0.0357	0.0343
Se1960	196.090	{4 Y_2243	ppm	0.0333	0.0014	4.263	0.0343	0.0323
Si2516	251.611	{1 Y_3710	ppm	1.351	0.0065	0.4777	1.356	1.346
Sn1899	189.989	{4 In2306	ppm	0.0824	0.0016	1.887	0.0835	0.0813
Sr4215	421.552	{ 8 Y_3710	ppm	0.8806	0.0023	0.2644	0.8789	0.8822
Ti3349	334.904	{1 Y_3600	ppm	0.0349	0.0004	1.034	0.0352	0.0347
Tl1908	190.856	{4 In2306	ppm	-0.0163	0.006	37.05	-0.0205	-0.012
V_2924	292.402	{1 Y_3600	ppm	0.06	0.0003	0.4304	0.0602	0.0598
Zn2062	206.200	{4 In2306	ppm	0.1996	0.0028	1.415	0.2016	0.1976

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	952.3	3.3971	0.35673	949.9	954.7
In2306	230.606	{4 Cts/S	12332	139.63	1.1323	12233	12431
Y_2243	224.306	{4 Cts/S	20705	268.38	1.2962	20515	20895
Y_3600	360.073	{ 9 Cts/S	185890	267.09	0.14369	186070	185700
Y_3710	371.030	{ 9 Cts/S	52819	73.543	0.13924	52767	52871

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-b-8-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:09:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0001	0.0005	956.2	0.0004	-0.0003
Al3082	308.215	{1 In2306	ppm	11.65	0.3128	2.684	11.87	11.43
As1890	189.042	{4 Y_2243	ppm	0.0793	0.0014	1.761	0.0803	0.0783
B_2496	249.678	{1 Y_3710	ppm	0.0125	0.0008	6.727	0.0119	0.0131
Ba4554	455.403	{ 7 Y_3710	ppm	0.168	0.0022	1.295	0.1695	0.1665
Be3130	313.042	{1 Y_3710	ppm	0.0008	0	1.878	0.0008	0.0008
Ca3158	315.887	{1 In2306	ppm	132.8	3.091	2.327	135	130.7
Ca3181	318.128	{1 In2306	ppm	132.7	2.992	2.254	134.9	130.6
Cd2288	228.802	{4 Y_2243	ppm	0.1111	0.0003	0.3012	0.1108	0.1113
Co2286	228.616	{4 In2306	ppm	0.0087	0	0.0687	0.0087	0.0086
Cr2677	267.716	{1 Y_3600	ppm	0.0233	0.0002	0.9076	0.0231	0.0234
Cu3247	324.754	{1 Y_3600	ppm	0.1482	0.0005	0.3522	0.1478	0.1485
Fe2404	240.488	{1 In2306	ppm	28.88	0.6217	2.153	29.32	28.44
K_7664	766.490	{ 4 Y_3710	ppm	1.766	0.0749	4.244	1.819	1.713
K_7698	769.896	{ 4 Y_3710	ppm	1.605	0.0248	1.544	1.623	1.587
Li6707	670.784	{ 8 Y_3710	ppm	0.0087	0.0001	1.357	0.0086	0.0088
Mg2790	279.079	{1 Y_3710	ppm	7.258	0.1289	1.776	7.349	7.167
Mn2576	257.610	{1 Y_3600	ppm	0.4158	0.0044	1.049	0.4127	0.4189
Mn2576-2	257.610	{1 Y_3710	ppm	0.4126	0.0029	0.6918	0.4147	0.4106
Mo2020	202.030	{4 Y_2243	ppm	0.0013	0.0002	14.29	0.0011	0.0014
Na5895	589.592	{ 8 Y_3710	ppm	7.997	0.0897	1.121	8.061	7.934
Na8183	818.326	{ 4 Y_3710	ppm	8.032	0.1991	2.479	8.173	7.891
Ni2316	231.604	{4 In2306	ppm	0.0364	0	0.0842	0.0364	0.0364
P_1782	178.284	{4 In2306	ppm	0.6183	0.001	0.1647	0.6176	0.6191
Pb2203	220.353	{4 In2306	ppm	11.13	0.0027	0.0239	11.13	11.13
S_1820	182.034	{4 Y_2243	ppm	-1997	0.5234	0.0262	-1997	-1996
Sb2068	206.833	{4 Y_2243	ppm	0.0893	0.0023	2.578	0.0909	0.0877
Se1960	196.090	{4 Y_2243	ppm	0.007	0.0002	3.408	0.0069	0.0072
Si2516	251.611	{1 Y_3710	ppm	1.145	0.0258	2.258	1.163	1.126
Sn1899	189.989	{4 In2306	ppm	0.1295	0	0.0149	0.1295	0.1295
Sr4215	421.552	{ 8 Y_3710	ppm	0.4035	0.0051	1.253	0.4071	0.3999
Ti3349	334.904	{1 Y_3600	ppm	0.0364	0.0001	0.2233	0.0364	0.0365
Tl1908	190.856	{4 In2306	ppm	-0.0315	0.0045	14.39	-0.0347	-0.0283
V_2924	292.402	{1 Y_3600	ppm	0.0512	0.0008	1.47	0.0507	0.0518
Zn2062	206.200	{4 In2306	ppm	0.1126	0.0002	0.1815	0.1127	0.1124

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	985.66	20.774	2.1076	970.97	1000.4
In2306	230.606	{4 Cts/S	13274	1.1229	0.00846	13273	13275
Y_2243	224.306	{4 Cts/S	21330	8.1859	0.03838	21324	21336
Y_3600	360.073	{ 9 Cts/S	190620	1095.2	0.57452	191400	189850
Y_3710	371.030	{ 9 Cts/S	53349	478.16	0.89629	53010	53687

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-a-9-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:12:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0007	0.0004	53.95	-0.001	-0.0004
Al3082	308.215 {1	In2306	ppm	20.42	1.226	6.003	21.29	19.55
As1890	189.042 {4	Y_2243	ppm	0.1153	0.0002	0.144	0.1152	0.1155
B_2496	249.678 {1	Y_3710	ppm	0.0106	0.0048	44.92	0.014	0.0073
Ba4554	455.403 {	Y_3710	ppm	0.2273	0.0143	6.288	0.2374	0.2172
Be3130	313.042 {1	Y_3710	ppm	0.0015	0.0001	6.524	0.0016	0.0014
Ca3158	315.887 {1	In2306	ppm	177.9	11.16	6.275	185.8	170
Ca3181	318.128 {1	In2306	ppm	177.5	10.88	6.132	185.2	169.8
Cd2288	228.802 {4	Y_2243	ppm	0.0234	0.0001	0.3068	0.0235	0.0234
Co2286	228.616 {4	In2306	ppm	0.0153	0	0.1732	0.0153	0.0153
Cr2677	267.716 {1	Y_3600	ppm	0.0302	0.0018	5.993	0.0289	0.0315
Cu3247	324.754 {1	Y_3600	ppm	0.3231	0.0182	5.646	0.3102	0.336
Fe2404	240.488 {1	In2306	ppm	46.25	2.91	6.293	48.31	44.19
K_7664	766.490 {	Y_3710	ppm	2.389	0.134	5.61	2.484	2.294
K_7698	769.896 {	Y_3710	ppm	2.378	0.1869	7.858	2.51	2.246
Li6707	670.784 {	Y_3710	ppm	0.0147	0.0007	4.483	0.0152	0.0143
Mg2790	279.079 {1	Y_3710	ppm	3.374	0.2709	8.028	3.566	3.183
Mn2576	257.610 {1	Y_3600	ppm	0.8232	0.0503	6.117	0.7876	0.8588
Mn2576-2	257.610 {1	Y_3710	ppm	0.8761	0.0572	6.527	0.9165	0.8357
Mo2020	202.030 {4	Y_2243	ppm	0.0025	0.0003	13.19	0.0023	0.0027
Na5895	589.592 {	Y_3710	ppm	0.4035	0.0243	6.033	0.4207	0.3863
Na8183	818.326 {	Y_3710	ppm	0.4656	0.1024	22	0.538	0.3932
Ni2316	231.604 {4	In2306	ppm	0.0664	0.0004	0.6143	0.0661	0.0667
P_1782	178.284 {4	In2306	ppm	1.164	0.0003	0.0239	1.165	1.164
Pb2203	220.353 {4	In2306	ppm	11.53	0.0308	0.2668	11.55	11.51
S_1820	182.034 {4	Y_2243	ppm	-2195	6.602	0.3007	-2200	-2191
Sb2068	206.833 {4	Y_2243	ppm	0.0584	0.0002	0.4091	0.0582	0.0585
Se1960	196.090 {4	Y_2243	ppm	0.0077	0.0001	1.86	0.0076	0.0078
Si2516	251.611 {1	Y_3710	ppm	1.394	0.0832	5.969	1.453	1.335
Sn1899	189.989 {4	In2306	ppm	0.1224	0.0003	0.2445	0.1226	0.1222
Sr4215	421.552 {	Y_3710	ppm	0.6191	0.0393	6.341	0.6469	0.5914
Ti3349	334.904 {1	Y_3600	ppm	0.0348	0.0019	5.411	0.0335	0.0361
Tl1908	190.856 {4	In2306	ppm	-0.0404	0.0002	0.5475	-0.0405	-0.0402
V_2924	292.402 {1	Y_3600	ppm	0.0737	0.0035	4.777	0.0712	0.0761
Zn2062	206.200 {4	In2306	ppm	0.1456	0.0002	0.1222	0.1457	0.1454

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	946.75	50.75	5.3604	910.87	982.64
In2306	230.606 {4	Cts/S	13012	3.8852	0.02986	13014	13009
Y_2243	224.306 {4	Cts/S	21172	13.724	0.06482	21182	21163
Y_3600	360.073 {	Cts/S	193290	8788.9	4.5469	199510	187080
Y_3710	371.030 {	Cts/S	51515	2899.5	5.6284	49465	53566

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-a-10-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:14:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0002	65.29	-0.0002	-0.0005
Al3082	308.215	{1 In2306	ppm	25.49	0.5692	2.233	25.89	25.08
As1890	189.042	{4 Y_2243	ppm	0.0977	0.0012	1.243	0.0986	0.0969
B_2496	249.678	{1 Y_3710	ppm	0.0072	0.0021	28.87	0.0087	0.0057
Ba4554	455.403	{ 7 Y_3710	ppm	0.2578	0.0063	2.445	0.2622	0.2533
Be3130	313.042	{1 Y_3710	ppm	0.0018	0.0001	6.828	0.0018	0.0017
Ca3158	315.887	{1 In2306	ppm	230.4	5.367	2.33	234.2	226.6
Ca3181	318.128	{1 In2306	ppm	230.7	5.961	2.584	234.9	226.5
Cd2288	228.802	{4 Y_2243	ppm	0.0567	0.0006	1.136	0.0572	0.0562
Co2286	228.616	{4 In2306	ppm	0.0156	0.0004	2.433	0.0158	0.0153
Cr2677	267.716	{1 Y_3600	ppm	0.0383	0	0.0011	0.0383	0.0383
Cu3247	324.754	{1 Y_3600	ppm	0.123	0.0002	0.167	0.1228	0.1231
Fe2404	240.488	{1 In2306	ppm	36.7	0.9379	2.556	37.36	36.04
K_7664	766.490	{ 4 Y_3710	ppm	3.072	0.0827	2.691	3.13	3.013
K_7698	769.896	{ 4 Y_3710	ppm	2.939	0.1455	4.95	3.042	2.836
Li6707	670.784	{ 8 Y_3710	ppm	0.0183	0.0013	7.268	0.0192	0.0173
Mg2790	279.079	{1 Y_3710	ppm	4.809	0.1686	3.506	4.928	4.69
Mn2576	257.610	{1 Y_3600	ppm	1.092	0.0097	0.8871	1.085	1.099
Mn2576-2	257.610	{1 Y_3710	ppm	1.109	0.0302	2.722	1.131	1.088
Mo2020	202.030	{4 Y_2243	ppm	0.0019	0.0001	5.43	0.0018	0.002
Na5895	589.592	{ 8 Y_3710	ppm	0.6524	0.0229	3.513	0.6686	0.6362
Na8183	818.326	{ 4 Y_3710	ppm	0.3578	0.0031	0.8674	0.3556	0.3599
Ni2316	231.604	{4 In2306	ppm	0.0647	0.0011	1.638	0.0655	0.064
P_1782	178.284	{4 In2306	ppm	1.415	0.0153	1.084	1.426	1.404
Pb2203	220.353	{4 In2306	ppm	36.29	0.4909	1.352	36.64	35.95
S_1820	182.034	{4 Y_2243	ppm	-481.6	5.133	1.066	-485.3	-478
Sb2068	206.833	{4 Y_2243	ppm	0.0787	0.0017	2.126	0.0799	0.0775
Se1960	196.090	{4 Y_2243	ppm	0.0063	0.0006	10.37	0.0067	0.0058
Si2516	251.611	{1 Y_3710	ppm	1.523	0.0557	3.657	1.562	1.484
Sn1899	189.989	{4 In2306	ppm	0.0743	0.0013	1.683	0.0752	0.0734
Sr4215	421.552	{ 8 Y_3710	ppm	0.6715	0.0165	2.46	0.6832	0.6598
Ti3349	334.904	{1 Y_3600	ppm	0.034	0.0002	0.6167	0.0339	0.0342
Tl1908	190.856	{4 In2306	ppm	-0.0445	0.001	2.264	-0.0452	-0.0438
V_2924	292.402	{1 Y_3600	ppm	0.1019	0.0007	0.6604	0.1014	0.1024
Zn2062	206.200	{4 In2306	ppm	0.1618	0.0028	1.703	0.1637	0.1598

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	955.92	24.187	2.5303	938.81	973.02
In2306	230.606	{4 Cts/S	12935	118.92	0.91935	12851	13020
Y_2243	224.306	{4 Cts/S	21326	122.32	0.57357	21239	21412
Y_3600	360.073	{ 9 Cts/S	189750	987.84	0.5206	190450	189050
Y_3710	371.030	{ 9 Cts/S	52450	1535.4	2.9273	51364	53535

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:16:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2466	0.0013	0.5396	0.2476	0.2457
Al3082	308.215 {1	In2306	ppm	2.441	0.0978	4.006	2.511	2.372
As1890	189.042 {4	Y_2243	ppm	0.4991	0.0004	0.0753	0.4993	0.4988
B_2496	249.678 {1	Y_3710	ppm	0.4946	0.0155	3.136	0.5056	0.4836
Ba4554	455.403 {	Y_3710	ppm	0.4854	0.0176	3.616	0.4978	0.4729
Be3130	313.042 {1	Y_3710	ppm	0.4953	0.0163	3.282	0.5068	0.4838
Ca3158	315.887 {1	In2306	ppm	12.14	0.419	3.452	12.43	11.84
Ca3181	318.128 {1	In2306	ppm	12.14	0.3231	2.661	12.37	11.91
Cd2288	228.802 {4	Y_2243	ppm	0.4913	0.0031	0.6228	0.4934	0.4891
Co2286	228.616 {4	In2306	ppm	0.4888	0.004	0.8183	0.4916	0.486
Cr2677	267.716 {1	Y_3600	ppm	0.4992	0.0009	0.1772	0.4986	0.4999
Cu3247	324.754 {1	Y_3600	ppm	0.4905	0.001	0.2017	0.4898	0.4912
Fe2404	240.488 {1	In2306	ppm	2.454	0.0682	2.779	2.502	2.405
K_7664	766.490 {	Y_3710	ppm	12.31	0.3698	3.004	12.57	12.05
K_7698	769.896 {	Y_3710	ppm	12.38	0.4741	3.829	12.72	12.05
Li6707	670.784 {	Y_3710	ppm	0.4861	0.0187	3.838	0.4993	0.4729
Mg2790	279.079 {1	Y_3710	ppm	4.961	0.1975	3.982	5.1	4.821
Mn2576	257.610 {1	Y_3600	ppm	0.4956	0.0026	0.5247	0.4974	0.4937
Mn2576-2	257.610 {1	Y_3710	ppm	0.4928	0.0154	3.12	0.5036	0.4819
Mo2020	202.030 {4	Y_2243	ppm	0.5054	0.0047	0.9276	0.5087	0.5021
Na5895	589.592 {	Y_3710	ppm	12.28	0.438	3.566	12.59	11.97
Na8183	818.326 {	Y_3710	ppm	12.55	0.39	3.107	12.83	12.28
Ni2316	231.604 {4	In2306	ppm	0.4914	0.0025	0.5188	0.4932	0.4896
P_1782	178.284 {4	In2306	ppm	0.4875	0.003	0.6088	0.4896	0.4854
Pb2203	220.353 {4	In2306	ppm	0.4941	0.0046	0.9267	0.4973	0.4908
S_1820	182.034 {4	Y_2243	ppm	-546.7	4.105	0.7508	-549.6	-543.8
Sb2068	206.833 {4	Y_2243	ppm	0.4931	0.0011	0.2184	0.4938	0.4923
Se1960	196.090 {4	Y_2243	ppm	0.4926	0.0039	0.7966	0.4953	0.4898
Si2516	251.611 {1	Y_3710	ppm	0.9472	0.0246	2.602	0.9646	0.9298
Sn1899	189.989 {4	In2306	ppm	0.4936	0.0048	0.9664	0.497	0.4902
Sr4215	421.552 {	Y_3710	ppm	0.2463	0.0087	3.517	0.2524	0.2401
Ti3349	334.904 {1	Y_3600	ppm	0.5018	0.0008	0.1625	0.5012	0.5024
Tl1908	190.856 {4	In2306	ppm	0.3708	0.0532	14.35	0.4085	0.3332
V_2924	292.402 {1	Y_3600	ppm	0.5037	0.002	0.3882	0.5023	0.5051
Zn2062	206.200 {4	In2306	ppm	0.49	0.0038	0.7843	0.4928	0.4873

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1008.8	22.109	2.1915	993.21	1024.5
In2306	230.606 {4	Cts/S	14161	65.219	0.46056	14115	14207
Y_2243	224.306 {4	Cts/S	21527	91.925	0.42702	21462	21592
Y_3600	360.073 {	Cts/S	194190	400.73	0.20636	193900	194470
Y_3710	371.030 {	Cts/S	52908	1104.8	2.088	52127	53690

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:18:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0061	0.0005	7.99	0.0064	0.0057
Al3082	308.215 {1	In2306	ppm	0.1126	0.0012	1.056	0.1117	0.1134
As1890	189.042 {4	Y_2243	ppm	0.011	0.0006	5.777	0.0105	0.0114
B_2496	249.678 {1	Y_3710	ppm	0.0097	0.0035	35.58	0.0073	0.0122
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	1.423	0.01	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.3085	0.005	0.005
Ca3158	315.887 {1	In2306	ppm	0.12	0.0006	0.4782	0.1196	0.1204
Ca3181	318.128 {1	In2306	ppm	0.1017	0.0011	1.049	0.101	0.1025
Cd2288	228.802 {4	Y_2243	ppm	0.0056	0.0008	14.26	0.005	0.0061
Co2286	228.616 {4	In2306	ppm	0.01	0.0011	10.79	0.0092	0.0107
Cr2677	267.716 {1	Y_3600	ppm	0.0107	0.0004	3.482	0.0109	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0088	0.0003	3.402	0.0086	0.009
Fe2404	240.488 {1	In2306	ppm	0.0979	0.0006	0.6504	0.0975	0.0984
K_7664	766.490 {	Y_3710	ppm	0.6017	0.0184	3.06	0.6147	0.5887
K_7698	769.896 {	Y_3710	ppm	0.4814	0.003	0.624	0.4835	0.4793
Li6707	670.784 {	Y_3710	ppm	0.0091	0.0007	7.958	0.0096	0.0086
Mg2790	279.079 {1	Y_3710	ppm	0.1048	0.0124	11.8	0.1135	0.096
Mn2576	257.610 {1	Y_3600	ppm	0.0105	0.0004	3.517	0.0108	0.0103
Mn2576-2	257.610 {1	Y_3710	ppm	0.0099	0	0.2496	0.0099	0.0099
Mo2020	202.030 {4	Y_2243	ppm	0.0123	0.0018	14.42	0.011	0.0135
Na5895	589.592 {	Y_3710	ppm	0.5946	0.0013	0.2142	0.5955	0.5937
Na8183	818.326 {	Y_3710	ppm	0.2939	0.0653	22.22	0.2477	0.34
Ni2316	231.604 {4	In2306	ppm	0.0103	0.0012	11.48	0.0094	0.0111
P_1782	178.284 {4	In2306	ppm	0.0074	0.0012	16.61	0.0065	0.0083
Pb2203	220.353 {4	In2306	ppm	0.0103	0.0005	5.08	0.0099	0.0106
S_1820	182.034 {4	Y_2243	ppm	0.0383	0.4426	1156	0.3513	-0.2747
Sb2068	206.833 {4	Y_2243	ppm	0.0119	0.0022	18.67	0.0103	0.0135
Se1960	196.090 {4	Y_2243	ppm	0.0089	0.0007	8.168	0.0084	0.0094
Si2516	251.611 {1	Y_3710	ppm	0.0133	0.0022	16.22	0.0118	0.0148
Sn1899	189.989 {4	In2306	ppm	0.011	0.0013	11.79	0.0101	0.012
Sr4215	421.552 {	Y_3710	ppm	0.0049	0.0002	3.398	0.005	0.0048
Ti3349	334.904 {1	Y_3600	ppm	0.0106	0.0005	4.697	0.011	0.0103
Tl1908	190.856 {4	In2306	ppm	0.0612	0.0194	31.64	0.0475	0.0749
V_2924	292.402 {1	Y_3600	ppm	0.0104	0.0006	5.504	0.0108	0.01
Zn2062	206.200 {4	In2306	ppm	0.0102	0.001	10.09	0.0095	0.011

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1020.7	2.8053	0.27484	1022.7	1018.7
In2306	230.606 {4	Cts/S	14921	512.61	3.4355	15283	14558
Y_2243	224.306 {4	Cts/S	21782	750.2	3.4442	22312	21251
Y_3600	360.073 {	Cts/S	193860	5097.6	2.6296	190250	197460
Y_3710	371.030 {	Cts/S	52981	130.95	0.24716	52888	53073

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:21:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0007	0.0018	248.2	0.002	-0.0005
Al3082	308.215	{1 In2306	ppm	0.0183	0.0051	27.98	0.0147	0.0219
As1890	189.042	{4 Y_2243	ppm	-0.0004	0.0008	216.5	-0.0009	0.0002
B_2496	249.678	{1 Y_3710	ppm	-0.0014	0.0006	42.68	-0.0019	-0.001
Ba4554	455.403	{ 7 Y_3710	ppm	-0.0001	0.0001	118.3	-0.0002	0
Be3130	313.042	{1 Y_3710	ppm	0	0	37.94	0	0
Ca3158	315.887	{1 In2306	ppm	0.01	0.001	10.01	0.0107	0.0093
Ca3181	318.128	{1 In2306	ppm	0.021	0.0091	43.2	0.0274	0.0146
Cd2288	228.802	{4 Y_2243	ppm	0	0	26.55	0	0.0001
Co2286	228.616	{4 In2306	ppm	0.0001	0.0001	76.5	0.0001	0.0002
Cr2677	267.716	{1 Y_3600	ppm	0.0002	0	16.49	0.0002	0.0002
Cu3247	324.754	{1 Y_3600	ppm	-0.0013	0.0008	59.95	-0.0008	-0.0019
Fe2404	240.488	{1 In2306	ppm	0.0008	0.0015	201.2	0.0018	-0.0003
K_7664	766.490	{ 4 Y_3710	ppm	-0.029	0.0006	2.215	-0.0294	-0.0285
K_7698	769.896	{ 4 Y_3710	ppm	-0.1232	0.0239	19.44	-0.1401	-0.1062
Li6707	670.784	{ 8 Y_3710	ppm	-0.0013	0.0005	37.15	-0.001	-0.0017
Mg2790	279.079	{1 Y_3710	ppm	-0.0006	0.0008	121.1	-0.0001	-0.0012
Mn2576	257.610	{1 Y_3600	ppm	-0.0001	0.0001	138.7	-0.0001	0
Mn2576-2	257.610	{1 Y_3710	ppm	-0.0002	0.0004	229.5	-0.0005	0.0001
Mo2020	202.030	{4 Y_2243	ppm	0.0002	0.0002	83.72	0.0001	0.0003
Na5895	589.592	{ 8 Y_3710	ppm	-0.0091	0.0025	28.02	-0.0073	-0.0108
Na8183	818.326	{ 4 Y_3710	ppm	-0.0949	0.1166	122.9	-0.1773	-0.0124
Ni2316	231.604	{4 In2306	ppm	-0.0001	0	24.28	-0.0001	-0.0001
P_1782	178.284	{4 In2306	ppm	-0.0009	0.0004	42.24	-0.0012	-0.0006
Pb2203	220.353	{4 In2306	ppm	-0.0004	0.0003	90.35	-0.0006	-0.0001
S_1820	182.034	{4 Y_2243	ppm	1.326	0.2243	16.91	1.485	1.168
Sb2068	206.833	{4 Y_2243	ppm	0.0003	0.0013	398.4	-0.0006	0.0013
Se1960	196.090	{4 Y_2243	ppm	-0.0007	0.001	147.7	0	-0.0014
Si2516	251.611	{1 Y_3710	ppm	0.0025	0.0055	220.9	0.0063	-0.0014
Sn1899	189.989	{4 In2306	ppm	0.0004	0.0001	22.59	0.0004	0.0003
Sr4215	421.552	{ 8 Y_3710	ppm	0	0.0001	174.5	0	-0.0001
Ti3349	334.904	{1 Y_3600	ppm	0.0002	0.0002	131.2	0	0.0003
Tl1908	190.856	{4 In2306	ppm	0.0005	0.0093	1992	-0.0061	0.007
V_2924	292.402	{1 Y_3600	ppm	-0.0001	0.0001	100.8	0	-0.0002
Zn2062	206.200	{4 In2306	ppm	0	0	173.1	0	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1031.6	5.8401	0.56613	1035.7	1027.4
In2306	230.606	{4 Cts/S	15008	109.03	0.72648	14931	15085
Y_2243	224.306	{4 Cts/S	21907	210.92	0.96283	21757	22056
Y_3600	360.073	{ 9 Cts/S	199060	2123.7	1.0669	200560	197560
Y_3710	371.030	{ 9 Cts/S	53332	371.99	0.6975	53595	53069

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60819-a-11-a@100
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:23:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.001	148.9	0.0014	0
Al3082	308.215 {1	In2306	ppm	2.621	0.1067	4.071	2.696	2.545
As1890	189.042 {4	Y_2243	ppm	0.0032	0.0006	17.99	0.0028	0.0036
B_2496	249.678 {1	Y_3710	ppm	-0.0029	0.0003	10.43	-0.0027	-0.0031
Ba4554	455.403 {	Y_3710	ppm	0.0234	0.0009	3.937	0.0241	0.0228
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	10.06	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	16.37	0.5085	3.106	16.73	16.01
Ca3181	318.128 {1	In2306	ppm	16.36	0.6545	4	16.82	15.9
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	7.113	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0.0016	0.0001	6.086	0.0017	0.0015
Cr2677	267.716 {1	Y_3600	ppm	0.0042	0.0001	1.903	0.0042	0.0043
Cu3247	324.754 {1	Y_3600	ppm	0.0026	0.0002	8.352	0.0028	0.0025
Fe2404	240.488 {1	In2306	ppm	2.78	0.0955	3.434	2.848	2.713
K_7664	766.490 {	Y_3710	ppm	0.2583	0.0357	13.83	0.2836	0.2331
K_7698	769.896 {	Y_3710	ppm	0.1488	0.0278	18.69	0.1685	0.1292
Li6707	670.784 {	Y_3710	ppm	-0.0001	0	44.93	-0.0001	-0.0001
Mg2790	279.079 {1	Y_3710	ppm	0.4495	0.0258	5.748	0.4678	0.4313
Mn2576	257.610 {1	Y_3600	ppm	0.1193	0.0013	1.074	0.1202	0.1184
Mn2576-2	257.610 {1	Y_3710	ppm	0.1173	0.0044	3.767	0.1205	0.1142
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0	49.52	0.0001	0.0001
Na5895	589.592 {	Y_3710	ppm	0.0166	0.0018	10.72	0.0179	0.0154
Na8183	818.326 {	Y_3710	ppm	-0.0475	0.0233	49.01	-0.031	-0.0639
Ni2316	231.604 {4	In2306	ppm	0.0051	0	0.885	0.0051	0.005
P_1782	178.284 {4	In2306	ppm	0.0874	0.0011	1.266	0.0882	0.0866
Pb2203	220.353 {4	In2306	ppm	0.0386	0.0012	3.068	0.0395	0.0378
S_1820	182.034 {4	Y_2243	ppm	-18.13	0.3821	2.107	-17.86	-18.4
Sb2068	206.833 {4	Y_2243	ppm	-0.001	0.0009	87.29	-0.0004	-0.0016
Se1960	196.090 {4	Y_2243	ppm	-0.0014	0.0019	134.7	-0.0027	-0.0001
Si2516	251.611 {1	Y_3710	ppm	0.1512	0.0051	3.405	0.1549	0.1476
Sn1899	189.989 {4	In2306	ppm	0.0006	0.0001	13.79	0.0006	0.0007
Sr4215	421.552 {	Y_3710	ppm	0.0474	0.0017	3.521	0.0486	0.0463
Ti3349	334.904 {1	Y_3600	ppm	0.0033	0	1.065	0.0033	0.0033
Tl1908	190.856 {4	In2306	ppm	-0.0204	0.0037	18.18	-0.0231	-0.0178
V_2924	292.402 {1	Y_3600	ppm	0.0107	0.0002	1.883	0.0109	0.0106
Zn2062	206.200 {4	In2306	ppm	0.0134	0.0001	0.4136	0.0135	0.0134

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1008.2	29.507	2.9267	987.36	1029.1
In2306	230.606 {4	Cts/S	14573	93.992	0.64498	14506	14639
Y_2243	224.306 {4	Cts/S	21751	95.23	0.43781	21684	21819
Y_3600	360.073 {	Cts/S	196770	2516.4	1.2789	194990	198550
Y_3710	371.030 {	Cts/S	53170	1709.3	3.2149	51961	54379

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=mb 600-88002/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:26:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0006	0.0001	23.1	0.0005	0.0007
Al3082	308.215	{1 In2306	ppm	0.0401	0.0065	16.16	0.0447	0.0355
As1890	189.042	{4 Y_2243	ppm	-0.0009	0.0006	64.02	-0.0005	-0.0013
B_2496	249.678	{1 Y_3710	ppm	0.0003	0.0027	863.4	-0.0016	0.0022
Ba4554	455.403	{ 7 Y_3710	ppm	0.0043	0.0001	2.338	0.0042	0.0043
Be3130	313.042	{1 Y_3710	ppm	0	0	176.1	0	0
Ca3158	315.887	{1 In2306	ppm	0.6083	0.0115	1.892	0.6165	0.6002
Ca3181	318.128	{1 In2306	ppm	0.6179	0.0187	3.034	0.6311	0.6046
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	30.94	0.0001	0.0002
Co2286	228.616	{4 In2306	ppm	0	0.0001	386.4	-0.0001	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0009	0.0001	9.228	0.0009	0.0008
Cu3247	324.754	{1 Y_3600	ppm	-0.0002	0.0002	90.61	-0.0004	-0.0001
Fe2404	240.488	{1 In2306	ppm	0.0123	0.0003	2.576	0.0121	0.0125
K_7664	766.490	{ 4 Y_3710	ppm	0.0492	0.0297	60.42	0.0703	0.0282
K_7698	769.896	{ 4 Y_3710	ppm	-0.0611	0.0818	133.9	-0.119	-0.0033
Li6707	670.784	{ 8 Y_3710	ppm	-0.0013	0.0002	15.33	-0.0012	-0.0015
Mg2790	279.079	{1 Y_3710	ppm	0.0192	0.0035	18.08	0.0167	0.0217
Mn2576	257.610	{1 Y_3600	ppm	0.0007	0	3.936	0.0007	0.0007
Mn2576-2	257.610	{1 Y_3710	ppm	0.0001	0.0004	267.3	0.0004	-0.0001
Mo2020	202.030	{4 Y_2243	ppm	0.0001	0	17.5	0.0001	0.0001
Na5895	589.592	{ 8 Y_3710	ppm	0.0934	0.0042	4.497	0.0904	0.0964
Na8183	818.326	{ 4 Y_3710	ppm	-0.0505	0.2627	520.6	0.1353	-0.2362
Ni2316	231.604	{4 In2306	ppm	0.0007	0.0002	24.6	0.0006	0.0008
P_1782	178.284	{4 In2306	ppm	0.0559	0.0001	0.2659	0.056	0.0558
Pb2203	220.353	{4 In2306	ppm	0.0001	0.0005	347.5	-0.0002	0.0005
S_1820	182.034	{4 Y_2243	ppm	-12.65	0.3831	3.028	-12.92	-12.38
Sb2068	206.833	{4 Y_2243	ppm	-0.0001	0.0002	205.7	0.0001	-0.0003
Se1960	196.090	{4 Y_2243	ppm	0.0002	0.0007	333.6	0.0007	-0.0003
Si2516	251.611	{1 Y_3710	ppm	0.0118	0.0058	48.9	0.0159	0.0077
Sn1899	189.989	{4 In2306	ppm	0.0408	0	0.0413	0.0408	0.0408
Sr4215	421.552	{ 8 Y_3710	ppm	0.0047	0.0003	5.752	0.0048	0.0045
Ti3349	334.904	{1 Y_3600	ppm	0.0003	0.0001	18.72	0.0004	0.0003
Tl1908	190.856	{4 In2306	ppm	-0.0317	0.0037	11.64	-0.0344	-0.0291
V_2924	292.402	{1 Y_3600	ppm	-0.0002	0.0001	43.96	-0.0002	-0.0001
Zn2062	206.200	{4 In2306	ppm	0.0469	0.0002	0.3284	0.047	0.0467

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1022.6	17.644	1.7254	1010.1	1035.1
In2306	230.606	{4 Cts/S	14989	40.726	0.27171	15018	14960
Y_2243	224.306	{4 Cts/S	21708	67.12	0.30919	21756	21661
Y_3600	360.073	{ 9 Cts/S	196930	1824.6	0.92652	195640	198230
Y_3710	371.030	{ 9 Cts/S	53489	1038.3	1.9412	52755	54223

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=lcs 600-88002/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:28:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.4585	0.0065	1.409	0.4631	0.454
Al3082	308.215 {1	In2306	ppm	99.55	0.4168	0.4187	99.26	99.84
As1890	189.042 {4	Y_2243	ppm	1.38	0.0045	0.3253	1.384	1.377
B_2496	249.678 {1	Y_3710	ppm	0.8501	0.0111	1.311	0.858	0.8422
Ba4554	455.403 {	Y_3710	ppm	2.702	0.0398	1.471	2.674	2.73
Be3130	313.042 {1	Y_3710	ppm	1.56	0.0037	0.2389	1.562	1.557
Ca3158	315.887 {1	In2306	ppm	104.3	1.075	1.031	103.6	105.1
Ca3181	318.128 {1	In2306	ppm	103	0.6798	0.6597	102.6	103.5
Cd2288	228.802 {4	Y_2243	ppm	0.7409	0.002	0.2748	0.7423	0.7395
Co2286	228.616 {4	In2306	ppm	1.524	0.0051	0.3336	1.528	1.521
Cr2677	267.716 {1	Y_3600	ppm	1.052	0.0099	0.943	1.059	1.045
Cu3247	324.754 {1	Y_3600	ppm	1.112	0.0033	0.2926	1.114	1.109
Fe2404	240.488 {1	In2306	ppm	189.3	2.091	1.105	187.8	190.7
K_7664	766.490 {	Y_3710	ppm	48.78	0.3237	0.6637	49.01	48.55
K_7698	769.896 {	Y_3710	ppm	49.14	0.3363	0.6844	49.37	48.9
Li6707	670.784 {	Y_3710	ppm	0.0935	0.0016	1.69	0.0946	0.0924
Mg2790	279.079 {1	Y_3710	ppm	42.68	0.0703	0.1648	42.63	42.73
Mn2576	257.610 {1	Y_3600	ppm	5.38	0.0562	1.045	5.42	5.34
Mn2576-2	257.610 {1	Y_3710	ppm	5.45	0.0144	0.2635	5.439	5.46
Mo2020	202.030 {4	Y_2243	ppm	0.9197	0.0039	0.4274	0.9225	0.917
Na5895	589.592 {	Y_3710	ppm	6.198	0.0272	0.4393	6.217	6.179
Na8183	818.326 {	Y_3710	ppm	6.898	0.1869	2.709	6.766	7.03
Ni2316	231.604 {4	In2306	ppm	1.415	0.0054	0.3827	1.419	1.411
P_1782	178.284 {4	In2306	ppm	9.247	0.0279	0.3016	9.267	9.227
Pb2203	220.353 {4	In2306	ppm	1.499	0.0025	0.1675	1.501	1.497
S_1820	182.034 {4	Y_2243	ppm	-1525	4.847	0.3178	-1529	-1522
Sb2068	206.833 {4	Y_2243	ppm	0.663	0.0034	0.5085	0.6653	0.6606
Se1960	196.090 {4	Y_2243	ppm	2.038	0.0012	0.0583	2.038	2.039
Si2516	251.611 {1	Y_3710	ppm	4.086	0.0449	1.098	4.118	4.054
Sn1899	189.989 {4	In2306	ppm	1.713	0.0066	0.3838	1.718	1.709
Sr4215	421.552 {	Y_3710	ppm	2.485	0.0055	0.2226	2.489	2.481
Ti3349	334.904 {1	Y_3600	ppm	4.226	0.002	0.0463	4.224	4.227
Tl1908	190.856 {4	In2306	ppm	1.603	0.1752	10.93	1.727	1.479
V_2924	292.402 {1	Y_3600	ppm	0.6374	0.0021	0.3255	0.6389	0.6359
Zn2062	206.200 {4	In2306	ppm	2.446	0.0063	0.2559	2.45	2.441

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	954.24	10.336	1.0831	961.55	946.94
In2306	230.606 {4	Cts/S	12458	28.253	0.22679	12438	12478
Y_2243	224.306 {4	Cts/S	21310	32.962	0.15468	21287	21333
Y_3600	360.073 {	Cts/S	193080	837.62	0.43382	192480	193670
Y_3710	371.030 {	Cts/S	54525	12.204	0.02238	54516	54533

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60890-a-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:30:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0143	0.0002	1.399	-0.0142	-0.0144
Al3082	308.215 {1	In2306	ppm	326.1	3.446	1.057	328.5	323.7
As1890	189.042 {4	Y_2243	ppm	0.112	0.0028	2.464	0.11	0.1139
B_2496	249.678 {1	Y_3710	ppm	0.0587	0.0026	4.357	0.0569	0.0605
Ba4554	455.403 {	Y_3710	ppm	3.012	0.0192	0.6369	2.999	3.026
Be3130	313.042 {1	Y_3710	ppm	0.0202	0.0001	0.2562	0.0202	0.0202
Ca3158	315.887 {1	In2306	ppm	250.1	0.8267	0.3305	250.7	249.5
Ca3181	318.128 {1	In2306	ppm	245	1.787	0.7292	246.3	243.8
Cd2288	228.802 {4	Y_2243	ppm	0.0026	0.0018	66.84	0.0014	0.0039
Co2286	228.616 {4	In2306	ppm	0.1832	0.0002	0.0935	0.1833	0.1831
Cr2677	267.716 {1	Y_3600	ppm	0.313	0.0094	3.012	0.3064	0.3197
Cu3247	324.754 {1	Y_3600	ppm	0.2032	0.005	2.456	0.1996	0.2067
Fe2404	240.488 {1	In2306	ppm	349	3.627	1.039	351.5	346.4
K_7664	766.490 {	Y_3710	ppm	27.37	0.0422	0.1542	27.4	27.34
K_7698	769.896 {	Y_3710	ppm	27.38	0.0543	0.1983	27.35	27.42
Li6707	670.784 {	Y_3710	ppm	0.2193	0.0005	0.2229	0.2197	0.219
Mg2790	279.079 {1	Y_3710	ppm	66.22	0.0413	0.0624	66.25	66.19
Mn2576	257.610 {1	Y_3600	ppm	7.971	0.137	1.719	7.874	8.067
Mn2576-2	257.610 {1	Y_3710	ppm	8.101	0.0224	0.2762	8.085	8.116
Mo2020	202.030 {4	Y_2243	ppm	0.0092	0.0034	37.25	0.0068	0.0116
Na5895	589.592 {	Y_3710	ppm	6.424	0.0137	0.213	6.414	6.434
Na8183	818.326 {	Y_3710	ppm	7.38	0.0371	0.5021	7.354	7.406
Ni2316	231.604 {4	In2306	ppm	0.3114	0.0027	0.8537	0.3133	0.3096
P_1782	178.284 {4	In2306	ppm	3.282	0.0545	1.659	3.321	3.244
Pb2203	220.353 {4	In2306	ppm	0.4042	0.0055	1.351	0.408	0.4003
S_1820	182.034 {4	Y_2243	ppm	-751.9	11.36	1.51	-760	-743.9
Sb2068	206.833 {4	Y_2243	ppm	0.0048	0.001	19.93	0.0041	0.0055
Se1960	196.090 {4	Y_2243	ppm	0.0102	0.0041	40.22	0.0073	0.0131
Si2516	251.611 {1	Y_3710	ppm	5.566	0.0184	0.3308	5.579	5.553
Sn1899	189.989 {4	In2306	ppm	0.067	0.0051	7.556	0.0635	0.0706
Sr4215	421.552 {	Y_3710	ppm	0.6779	0.0024	0.3565	0.6796	0.6762
Ti3349	334.904 {1	Y_3600	ppm	0.4619	0.0149	3.219	0.4514	0.4724
Tl1908	190.856 {4	In2306	ppm	0.1924	0.0462	24.01	0.1597	0.225
V_2924	292.402 {1	Y_3600	ppm	0.6036	0.0194	3.22	0.5898	0.6173
Zn2062	206.200 {4	In2306	ppm	1.098	0.016	1.462	1.109	1.087

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	927.04	7.3319	0.79089	921.85	932.22
In2306	230.606 {4	Cts/S	11828	201.69	1.7052	11685	11970
Y_2243	224.306 {4	Cts/S	22279	322.15	1.446	22051	22507
Y_3600	360.073 {	Cts/S	192700	3837.1	1.9912	195420	189990
Y_3710	371.030 {	Cts/S	57616	128.03	0.22221	57707	57526

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60897-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:33:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.001	0.0001	11.75	0.001	0.0011
Al3082	308.215 {1	In2306	ppm	15.5	0.9537	6.152	16.18	14.83
As1890	189.042 {4	Y_2243	ppm	1.629	0.0023	0.1408	1.631	1.627
B_2496	249.678 {1	Y_3710	ppm	0.0167	0.0026	15.61	0.0186	0.0149
Ba4554	455.403 {	Y_3710	ppm	13.93	0.9435	6.775	14.59	13.26
Be3130	313.042 {1	Y_3710	ppm	0.0018	0.0002	9.441	0.0019	0.0017
Ca3158	315.887 {1	In2306	ppm	78.22	4.653	5.948	81.51	74.93
Ca3181	318.128 {1	In2306	ppm	77.36	4.756	6.148	80.72	74
Cd2288	228.802 {4	Y_2243	ppm	0.0114	0.0001	0.6574	0.0114	0.0113
Co2286	228.616 {4	In2306	ppm	0.0759	0.0004	0.5375	0.0756	0.0762
Cr2677	267.716 {1	Y_3600	ppm	0.1659	0.007	4.195	0.161	0.1708
Cu3247	324.754 {1	Y_3600	ppm	0.7634	0.0314	4.11	0.7412	0.7856
Fe2404	240.488 {1	In2306	ppm	100.9	6.151	6.094	105.3	96.58
K_7664	766.490 {	Y_3710	ppm	2.11	0.1113	5.276	2.188	2.031
K_7698	769.896 {	Y_3710	ppm	1.922	0.1455	7.569	2.025	1.819
Li6707	670.784 {	Y_3710	ppm	0.0165	0.0022	13.43	0.0181	0.015
Mg2790	279.079 {1	Y_3710	ppm	54.41	3.466	6.37	56.86	51.95
Mn2576	257.610 {1	Y_3600	ppm	6.322	0.1213	1.919	6.236	6.408
Mn2576-2	257.610 {1	Y_3710	ppm	6.84	0.415	6.067	7.133	6.547
Mo2020	202.030 {4	Y_2243	ppm	0.0367	0.0001	0.2723	0.0366	0.0367
Na5895	589.592 {	Y_3710	ppm	1.416	0.091	6.428	1.481	1.352
Na8183	818.326 {	Y_3710	ppm	1.675	0.0799	4.774	1.731	1.618
Ni2316	231.604 {4	In2306	ppm	0.09	0.0009	1.002	0.0893	0.0906
P_1782	178.284 {4	In2306	ppm	1.786	0.0047	0.2605	1.782	1.789
Pb2203	220.353 {4	In2306	ppm	0.7059	0	0.0034	0.7059	0.7058
S_1820	182.034 {4	Y_2243	ppm	-70630	293.6	0.4157	-70840	-70420
Sb2068	206.833 {4	Y_2243	ppm	0.123	0.0017	1.411	0.1243	0.1218
Se1960	196.090 {4	Y_2243	ppm	0.008	0.0005	6.665	0.0076	0.0084
Si2516	251.611 {1	Y_3710	ppm	2.902	0.2116	7.292	3.052	2.753
Sn1899	189.989 {4	In2306	ppm	0.056	0.0003	0.5172	0.0558	0.0562
Sr4215	421.552 {	Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904 {1	Y_3600	ppm	0.2018	0.01	4.946	0.1947	0.2089
Tl1908	190.856 {4	In2306	ppm	0.0693	0.0257	37.08	0.0511	0.0874
V_2924	292.402 {1	Y_3600	ppm	0.1556	0.0064	4.089	0.1511	0.1601
Zn2062	206.200 {4	In2306	ppm	1.505	0.0046	0.3049	1.508	1.501

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	913.35	41.028	4.492	884.34	942.36
In2306	230.606 {4	Cts/S	11918	24.841	0.20843	11936	11901
Y_2243	224.306 {4	Cts/S	19393	19.489	0.1005	19407	19379
Y_3600	360.073 {	Cts/S	182640	5737.1	3.1412	186700	178580
Y_3710	371.030 {	Cts/S	50215	2420.5	4.8202	48504	51927

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60897-a-1-c du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:35:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0013	0.0016	129.8	0.0024	0.0001
Al3082	308.215	{1 In2306	ppm	14.69	0.0085	0.0578	14.68	14.69
As1890	189.042	{4 Y_2243	ppm	1.602	0.018	1.125	1.589	1.615
B_2496	249.678	{1 Y_3710	ppm	0.0104	0.0046	44.29	0.0071	0.0136
Ba4554	455.403	{ 7 Y_3710	ppm	13.15	0.0195	0.1481	13.17	13.14
Be3130	313.042	{1 Y_3710	ppm	0.0017	0	0.1192	0.0017	0.0017
Ca3158	315.887	{1 In2306	ppm	73.97	0.3051	0.4124	74.18	73.75
Ca3181	318.128	{1 In2306	ppm	73.17	0.3372	0.4609	73.41	72.93
Cd2288	228.802	{4 Y_2243	ppm	0.011	0	0.0239	0.011	0.011
Co2286	228.616	{4 In2306	ppm	0.0738	0.0005	0.6156	0.0735	0.0741
Cr2677	267.716	{1 Y_3600	ppm	0.1656	0.0002	0.0962	0.1657	0.1655
Cu3247	324.754	{1 Y_3600	ppm	0.767	0.0036	0.4724	0.7696	0.7645
Fe2404	240.488	{1 In2306	ppm	95.74	0.0748	0.0781	95.8	95.69
K_7664	766.490	{ 4 Y_3710	ppm	2.059	0.0017	0.0812	2.061	2.058
K_7698	769.896	{ 4 Y_3710	ppm	1.823	0.0446	2.449	1.854	1.791
Li6707	670.784	{ 8 Y_3710	ppm	0.0167	0.0005	3.125	0.0163	0.0171
Mg2790	279.079	{1 Y_3710	ppm	51.19	0.1965	0.3838	51.32	51.05
Mn2576	257.610	{1 Y_3600	ppm	6.351	0.0198	0.3122	6.365	6.337
Mn2576-2	257.610	{1 Y_3710	ppm	6.487	0.0308	0.4753	6.509	6.466
Mo2020	202.030	{4 Y_2243	ppm	0.0361	0.0003	0.8119	0.0359	0.0363
Na5895	589.592	{ 8 Y_3710	ppm	1.468	0.0029	0.2001	1.47	1.466
Na8183	818.326	{ 4 Y_3710	ppm	1.866	0.2198	11.78	1.71	2.021
Ni2316	231.604	{4 In2306	ppm	0.0876	0.0007	0.7456	0.0871	0.088
P_1782	178.284	{4 In2306	ppm	1.75	0.0127	0.7284	1.741	1.759
Pb2203	220.353	{4 In2306	ppm	0.6901	0.0073	1.052	0.685	0.6952
S_1820	182.034	{4 Y_2243	ppm	-71320	724.4	1.016	-70810	-71830
Sb2068	206.833	{4 Y_2243	ppm	0.1218	0.0019	1.573	0.1205	0.1232
Se1960	196.090	{4 Y_2243	ppm	0.005	0.0004	7.212	0.0048	0.0053
Si2516	251.611	{1 Y_3710	ppm	2.771	0.0086	0.312	2.765	2.777
Sn1899	189.989	{4 In2306	ppm	0.056	0.0002	0.4	0.0562	0.0559
Sr4215	421.552	{ 8 Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904	{1 Y_3600	ppm	0.2046	0.0006	0.3107	0.205	0.2041
Tl1908	190.856	{4 In2306	ppm	0.0021	0.013	629.2	-0.0071	0.0113
V_2924	292.402	{1 Y_3600	ppm	0.1572	0.0002	0.1424	0.157	0.1573
Zn2062	206.200	{4 In2306	ppm	1.495	0.0122	0.8149	1.486	1.503

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	946.45	7.2491	0.76593	941.32	951.57
In2306	230.606	{4 Cts/S	11958	109.58	0.91635	12036	11881
Y_2243	224.306	{4 Cts/S	19363	194.39	1.0039	19501	19226
Y_3600	360.073	{ 9 Cts/S	178810	376.24	0.21041	178550	179080
Y_3710	371.030	{ 9 Cts/S	52077	444.6	0.85374	51763	52391

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60897-a-1-d ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:38:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.532	0.0021	0.3949	0.5305	0.5335
Al3082	308.215	{1 In2306	ppm	31.91	0.1921	0.6021	31.77	32.04
As1890	189.042	{4 Y_2243	ppm	2.627	0.0054	0.2066	2.623	2.631
B_2496	249.678	{1 Y_3710	ppm	1.002	0.001	0.0975	1.001	1.002
Ba4554	455.403	{ ï Y_3710	ppm	17.69	0.0405	0.2289	17.72	17.66
Be3130	313.042	{1 Y_3710	ppm	0.4962	0.0035	0.6985	0.4938	0.4987
Ca3158	315.887	{1 In2306	ppm	83.48	0.5059	0.606	83.12	83.84
Ca3181	318.128	{1 In2306	ppm	81.9	0.4397	0.5369	81.59	82.21
Cd2288	228.802	{4 Y_2243	ppm	0.5306	0.0028	0.5335	0.5286	0.5326
Co2286	228.616	{4 In2306	ppm	1.097	0.0053	0.483	1.094	1.101
Cr2677	267.716	{1 Y_3600	ppm	1.155	0.0027	0.2333	1.153	1.157
Cu3247	324.754	{1 Y_3600	ppm	1.825	0.0161	0.8849	1.814	1.836
Fe2404	240.488	{1 In2306	ppm	103.5	0.5468	0.5283	103.1	103.9
K_7664	766.490	{ ⁄ Y_3710	ppm	13.24	0.0667	0.5039	13.19	13.29
K_7698	769.896	{ ⁄ Y_3710	ppm	13.12	0.148	1.128	13.02	13.23
Li6707	670.784	{ ß Y_3710	ppm	0.5447	0.0029	0.5312	0.5426	0.5467
Mg2790	279.079	{1 Y_3710	ppm	60.47	0.2136	0.3533	60.32	60.62
Mn2576	257.610	{1 Y_3600	ppm	7.306	0.1102	1.508	7.228	7.384
Mn2576-2	257.610	{1 Y_3710	ppm	7.364	0.0441	0.5992	7.333	7.395
Mo2020	202.030	{4 Y_2243	ppm	1.077	0.0017	0.1553	1.078	1.076
Na5895	589.592	{ ß Y_3710	ppm	11.84	0.0998	0.843	11.76	11.91
Na8183	818.326	{ ⁄ Y_3710	ppm	12.29	0.1084	0.8816	12.22	12.37
Ni2316	231.604	{4 In2306	ppm	1.108	0.0083	0.7479	1.102	1.114
P_1782	178.284	{4 In2306	ppm	1.754	0.0119	0.6768	1.746	1.763
Pb2203	220.353	{4 In2306	ppm	1.35	0.0041	0.3052	1.347	1.353
S_1820	182.034	{4 Y_2243	ppm	-66970	379.6	0.5669	-66700	-67240
Sb2068	206.833	{4 Y_2243	ppm	0.8575	0.0001	0.0148	0.8575	0.8576
Se1960	196.090	{4 Y_2243	ppm	1.064	0.0031	0.2923	1.062	1.066
Si2516	251.611	{1 Y_3710	ppm	4.296	0.0152	0.354	4.286	4.307
Sn1899	189.989	{4 In2306	ppm	1.074	0.005	0.4645	1.07	1.077
Sr4215	421.552	{ ß Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904	{1 Y_3600	ppm	1.194	0.0068	0.5705	1.189	1.199
Tl1908	190.856	{4 In2306	ppm	0.9252	0.0974	10.52	0.9941	0.8564
V_2924	292.402	{1 Y_3600	ppm	1.213	0.0084	0.6949	1.207	1.219
Zn2062	206.200	{4 In2306	ppm	2.502	0.0192	0.7665	2.488	2.515

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	940.14	1.5922	0.16936	941.26	939.01
In2306	230.606	{4 Cts/S	11852	50.963	0.43001	11888	11816
Y_2243	224.306	{4 Cts/S	19431	54.073	0.27828	19470	19393
Y_3600	360.073	{ ¢ Cts/S	178320	741.97	0.41609	178840	177790
Y_3710	371.030	{ ¢ Cts/S	52130	55.229	0.10595	52169	52090

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60897-a-1-e msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:40:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5211	0.0004	0.0703	0.5213	0.5208
Al3082	308.215	{1 In2306	ppm	31.37	0.6667	2.125	31.84	30.9
As1890	189.042	{4 Y_2243	ppm	2.583	0.0029	0.1127	2.586	2.581
B_2496	249.678	{1 Y_3710	ppm	0.9848	0.0034	0.3403	0.9871	0.9824
Ba4554	455.403	{ 7 Y_3710	ppm	14.4	0.073	0.507	14.46	14.35
Be3130	313.042	{1 Y_3710	ppm	0.484	0.0068	1.411	0.4888	0.4791
Ca3158	315.887	{1 In2306	ppm	81.02	1.493	1.843	82.07	79.96
Ca3181	318.128	{1 In2306	ppm	79.65	1.195	1.5	80.5	78.81
Cd2288	228.802	{4 Y_2243	ppm	0.5212	0.0008	0.1501	0.5218	0.5207
Co2286	228.616	{4 In2306	ppm	1.077	0.0043	0.3962	1.08	1.074
Cr2677	267.716	{1 Y_3600	ppm	1.137	0.0062	0.5469	1.141	1.132
Cu3247	324.754	{1 Y_3600	ppm	1.788	0.0063	0.3543	1.783	1.792
Fe2404	240.488	{1 In2306	ppm	99.96	1.746	1.747	101.2	98.73
K_7664	766.490	{ 4 Y_3710	ppm	13.12	0.1876	1.429	13.25	12.99
K_7698	769.896	{ 4 Y_3710	ppm	12.93	0.2139	1.654	13.08	12.78
Li6707	670.784	{ 8 Y_3710	ppm	0.5335	0.0089	1.666	0.5398	0.5272
Mg2790	279.079	{1 Y_3710	ppm	58.56	0.6888	1.176	59.05	58.08
Mn2576	257.610	{1 Y_3600	ppm	7.082	0.0257	0.3624	7.1	7.064
Mn2576-2	257.610	{1 Y_3710	ppm	7.101	0.0833	1.173	7.16	7.042
Mo2020	202.030	{4 Y_2243	ppm	1.058	0.0016	0.1466	1.057	1.059
Na5895	589.592	{ 8 Y_3710	ppm	11.58	0.1492	1.288	11.69	11.48
Na8183	818.326	{ 4 Y_3710	ppm	11.98	0.2558	2.135	12.16	11.8
Ni2316	231.604	{4 In2306	ppm	1.09	0.0018	0.1665	1.091	1.089
P_1782	178.284	{4 In2306	ppm	1.702	0.0063	0.3726	1.707	1.698
Pb2203	220.353	{4 In2306	ppm	1.226	0.0016	0.1268	1.227	1.224
S_1820	182.034	{4 Y_2243	ppm	-66030	111.3	0.1686	-65950	-66110
Sb2068	206.833	{4 Y_2243	ppm	0.8572	0.0038	0.4378	0.8599	0.8546
Se1960	196.090	{4 Y_2243	ppm	1.042	0.0077	0.7386	1.036	1.047
Si2516	251.611	{1 Y_3710	ppm	4.162	0.0874	2.099	4.224	4.1
Sn1899	189.989	{4 In2306	ppm	1.055	0.0003	0.0286	1.055	1.055
Sr4215	421.552	{ 8 Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904	{1 Y_3600	ppm	1.174	0.0025	0.2101	1.175	1.172
Tl1908	190.856	{4 In2306	ppm	1.065	0.0576	5.406	1.106	1.025
V_2924	292.402	{1 Y_3600	ppm	1.196	0.0064	0.5334	1.2	1.191
Zn2062	206.200	{4 In2306	ppm	2.475	0.013	0.5259	2.484	2.466

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	944.1	12.751	1.3506	935.09	953.12
In2306	230.606	{4 Cts/S	11909	15.419	0.12947	11898	11920
Y_2243	224.306	{4 Cts/S	19484	19.695	0.10108	19498	19471
Y_3600	360.073	{ 9 Cts/S	178340	481.9	0.27022	178000	178680
Y_3710	371.030	{ 9 Cts/S	52692	433.08	0.8219	52386	52998

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=PDS 600-60897-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:42:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.514	0.0072	1.392	0.5089	0.519
Al3082	308.215	{1 In2306	ppm	25.2	0.2108	0.8366	25.35	25.05
As1890	189.042	{4 Y_2243	ppm	2.696	0.1043	3.871	2.622	2.769
B_2496	249.678	{1 Y_3710	ppm	0.9864	0.0062	0.6307	0.9908	0.982
Ba4554	455.403	{ ï Y_3710	ppm	14.18	0.0456	0.3218	14.14	14.21
Be3130	313.042	{1 Y_3710	ppm	0.4709	0.0007	0.1577	0.4714	0.4703
Ca3158	315.887	{1 In2306	ppm	85.58	0.9608	1.123	86.26	84.9
Ca3181	318.128	{1 In2306	ppm	83.87	0.5775	0.6885	84.28	83.46
Cd2288	228.802	{4 Y_2243	ppm	0.5224	0.0196	3.742	0.5086	0.5362
Co2286	228.616	{4 In2306	ppm	1.074	0.0427	3.976	1.043	1.104
Cr2677	267.716	{1 Y_3600	ppm	1.131	0.0169	1.491	1.119	1.143
Cu3247	324.754	{1 Y_3600	ppm	1.816	0.0312	1.721	1.794	1.838
Fe2404	240.488	{1 In2306	ppm	106.7	0.7258	0.6804	107.2	106.2
K_7664	766.490	{ ¿ Y_3710	ppm	12.03	0.0597	0.4962	12.07	11.99
K_7698	769.896	{ ¿ Y_3710	ppm	11.97	0.0148	0.1237	11.98	11.96
Li6707	670.784	{ £ Y_3710	ppm	1.029	0.0019	0.1824	1.031	1.028
Mg2790	279.079	{1 Y_3710	ppm	61.08	0.0152	0.0249	61.09	61.07
Mn2576	257.610	{1 Y_3600	ppm	7.403	0.14	1.892	7.304	7.502
Mn2576-2	257.610	{1 Y_3710	ppm	7.498	0.0377	0.5022	7.525	7.471
Mo2020	202.030	{4 Y_2243	ppm	1.038	0.0389	3.745	1.011	1.066
Na5895	589.592	{ £ Y_3710	ppm	11.38	0.003	0.0268	11.38	11.37
Na8183	818.326	{ ¿ Y_3710	ppm	11.83	0.1256	1.062	11.74	11.92
Ni2316	231.604	{4 In2306	ppm	1.092	0.0414	3.789	1.063	1.122
P_1782	178.284	{4 In2306	ppm	2.913	0.1084	3.721	2.836	2.989
Pb2203	220.353	{4 In2306	ppm	1.703	0.0663	3.894	1.656	1.749
S_1820	182.034	{4 Y_2243	ppm	-71620	2696	3.765	-69710	-73530
Sb2068	206.833	{4 Y_2243	ppm	1.172	0.0373	3.181	1.145	1.198
Se1960	196.090	{4 Y_2243	ppm	1.057	0.038	3.599	1.03	1.084
Si2516	251.611	{1 Y_3710	ppm	3.722	0.0007	0.0182	3.722	3.723
Sn1899	189.989	{4 In2306	ppm	1.059	0.0388	3.666	1.032	1.086
Sr4215	421.552	{ £ Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904	{1 Y_3600	ppm	1.188	0.0171	1.441	1.176	1.2
Tl1908	190.856	{4 In2306	ppm	1.3	0.0876	6.739	1.238	1.362
V_2924	292.402	{1 Y_3600	ppm	1.143	0.0164	1.437	1.131	1.155
Zn2062	206.200	{4 In2306	ppm	2.521	0.1008	3.997	2.45	2.592

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	933.28	7.6074	0.81513	927.9	938.66
In2306	230.606	{4 Cts/S	11651	385.57	3.3092	11924	11379
Y_2243	224.306	{4 Cts/S	19039	612.69	3.2181	19472	18606
Y_3600	360.073	{ ¢ Cts/S	177120	2130.6	1.2029	178630	175620
Y_3710	371.030	{ ¢ Cts/S	51880	175.74	0.33875	51756	52004

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=SD 600-60897-a-1-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:45:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0001	0.0007	1001	0.0006	-0.0004
Al3082	308.215	{1 In2306	ppm	2.895	0.0847	2.927	2.835	2.955
As1890	189.042	{4 Y_2243	ppm	0.3182	0.0033	1.051	0.3158	0.3205
B_2496	249.678	{1 Y_3710	ppm	0.0009	0.0006	62.21	0.0005	0.0014
Ba4554	455.403	{ 7 Y_3710	ppm	2.814	0.0479	1.703	2.78	2.848
Be3130	313.042	{1 Y_3710	ppm	0.0004	0	3.545	0.0003	0.0004
Ca3158	315.887	{1 In2306	ppm	15.37	0.5965	3.881	14.95	15.79
Ca3181	318.128	{1 In2306	ppm	15.18	0.4323	2.849	14.87	15.48
Cd2288	228.802	{4 Y_2243	ppm	0.0027	0.0006	23	0.0023	0.0031
Co2286	228.616	{4 In2306	ppm	0.0156	0.0016	10.57	0.0144	0.0168
Cr2677	267.716	{1 Y_3600	ppm	0.0354	0.0003	0.8378	0.0356	0.0352
Cu3247	324.754	{1 Y_3600	ppm	0.155	0.0012	0.8031	0.1559	0.1542
Fe2404	240.488	{1 In2306	ppm	19.54	0.6835	3.498	19.06	20.02
K_7664	766.490	{ 4 Y_3710	ppm	0.392	0.0107	2.731	0.3845	0.3996
K_7698	769.896	{ 4 Y_3710	ppm	0.26	0.01	3.828	0.2529	0.267
Li6707	670.784	{ 8 Y_3710	ppm	0.0022	0.0011	52.82	0.0013	0.003
Mg2790	279.079	{1 Y_3710	ppm	10.65	0.302	2.837	10.43	10.86
Mn2576	257.610	{1 Y_3600	ppm	1.378	0.0206	1.494	1.393	1.364
Mn2576-2	257.610	{1 Y_3710	ppm	1.378	0.0498	3.613	1.343	1.413
Mo2020	202.030	{4 Y_2243	ppm	0.0112	0.0025	22.12	0.0094	0.0129
Na5895	589.592	{ 8 Y_3710	ppm	0.2612	0.009	3.447	0.2548	0.2675
Na8183	818.326	{ 4 Y_3710	ppm	0.0461	0.0206	44.65	0.0607	0.0316
Ni2316	231.604	{4 In2306	ppm	0.0176	0.0017	9.521	0.0164	0.0188
P_1782	178.284	{4 In2306	ppm	0.3175	0.0028	0.8778	0.3155	0.3194
Pb2203	220.353	{4 In2306	ppm	0.139	0.0016	1.144	0.1379	0.1402
S_1820	182.034	{4 Y_2243	ppm	-13770	35.63	0.2588	-13740	-13790
Sb2068	206.833	{4 Y_2243	ppm	0.0402	0.0029	7.261	0.0381	0.0422
Se1960	196.090	{4 Y_2243	ppm	0.0023	0.001	41.77	0.0016	0.003
Si2516	251.611	{1 Y_3710	ppm	0.5702	0.0206	3.609	0.5556	0.5847
Sn1899	189.989	{4 In2306	ppm	0.0128	0.0024	18.54	0.0111	0.0144
Sr4215	421.552	{ 8 Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Ti3349	334.904	{1 Y_3600	ppm	0.0428	0.0003	0.6468	0.0426	0.043
Tl1908	190.856	{4 In2306	ppm	0.0339	0.0202	59.75	0.0196	0.0482
V_2924	292.402	{1 Y_3600	ppm	0.0321	0.0002	0.6079	0.0322	0.0319
Zn2062	206.200	{4 In2306	ppm	0.3019	0.0041	1.345	0.2991	0.3048

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	999.88	24.515	2.4518	1017.2	982.54
In2306	230.606	{4 Cts/S	13963	51.598	0.36953	14000	13927
Y_2243	224.306	{4 Cts/S	21147	41.662	0.19701	21177	21118
Y_3600	360.073	{ 9 Cts/S	190400	910.61	0.47825	189760	191050
Y_3710	371.030	{ 9 Cts/S	53126	1015.8	1.9121	53844	52408

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:47:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	s .2817	0.0466	16.56	s .3147	0.2487
Al3082	308.215	{1 In2306	ppm	k 2.430	0.0321	1.319	k 2.407	2.453
As1890	189.042	{4 Y_2243	ppm	k .4973	0.0036	0.7277	k .4999	0.4948
B_2496	249.678	{1 Y_3710	ppm	0.4829	0.0046	0.9488	0.4797	0.4862
Ba4554	455.403	{ 7 Y_3710	ppm	0.4884	0.0061	1.245	0.4841	0.4927
Be3130	313.042	{1 Y_3710	ppm	k .4894	0.0043	0.8829	k .4863	0.4924
Ca3158	315.887	{1 In2306	ppm	12.14	0.1645	1.356	12.02	12.25
Ca3181	318.128	{1 In2306	ppm	k 12.04	0.1382	1.148	k 11.94	12.14
Cd2288	228.802	{4 Y_2243	ppm	k .4914	0.0047	0.9597	k .4948	0.4881
Co2286	228.616	{4 In2306	ppm	k .4840	0.0036	0.7491	k .4866	0.4815
Cr2677	267.716	{1 Y_3600	ppm	s .5660	0.0868	15.34	s .6274	0.5046
Cu3247	324.754	{1 Y_3600	ppm	s .5602	0.0944	16.85	s .6270	0.4934
Fe2404	240.488	{1 In2306	ppm	2.44	0.0281	1.152	2.42	2.46
K_7664	766.490	{ 4 Y_3710	ppm	12.28	0.0485	0.3951	12.25	12.32
K_7698	769.896	{ 4 Y_3710	ppm	12.32	0.1078	0.8755	12.24	12.39
Li6707	670.784	{ 8 Y_3710	ppm	0.4909	0.0056	1.145	0.487	0.4949
Mg2790	279.079	{1 Y_3710	ppm	4.856	0.0094	0.1929	4.85	4.863
Mn2576	257.610	{1 Y_3600	ppm	s .5609	0.0907	16.17	s .6251	0.4968
Mn2576-2	257.610	{1 Y_3710	ppm	0.4891	0.0059	1.215	0.4849	0.4933
Mo2020	202.030	{4 Y_2243	ppm	0.5055	0.0038	0.7591	0.5082	0.5028
Na5895	589.592	{ 8 Y_3710	ppm	12.28	0.095	0.7735	12.22	12.35
Na8183	818.326	{ 4 Y_3710	ppm	12.5	0.0558	0.4467	12.46	12.54
Ni2316	231.604	{4 In2306	ppm	k .4856	0.0024	0.4973	k .4873	0.4839
P_1782	178.284	{4 In2306	ppm	0.484	0.0026	0.546	0.4859	0.4822
Pb2203	220.353	{4 In2306	ppm	k .4858	0.005	1.022	k .4893	0.4823
S_1820	182.034	{4 Y_2243	ppm	-558.5	8.65	1.549	-552.4	-564.6
Sb2068	206.833	{4 Y_2243	ppm	k .5079	0.0106	2.088	k .5154	0.5004
Se1960	196.090	{4 Y_2243	ppm	0.4939	0.0003	0.0523	0.4937	0.4941
Si2516	251.611	{1 Y_3710	ppm	0.933	0.0047	0.5045	0.9297	0.9363
Sn1899	189.989	{4 In2306	ppm	0.4872	0.0032	0.6613	0.4895	0.485
Sr4215	421.552	{ 8 Y_3710	ppm	0.2533	0.0015	0.5852	0.2543	0.2522
Ti3349	334.904	{1 Y_3600	ppm	s .5641	0.0931	16.5	s .6299	0.4983
Tl1908	190.856	{4 In2306	ppm	k .4430	0.0476	10.75	k .4767	0.4093
V_2924	292.402	{1 Y_3600	ppm	s .5672	0.091	16.05	s .6316	0.5028
Zn2062	206.200	{4 In2306	ppm	k .4810	0.0019	0.4006	k .4823	0.4796

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1022.3	9.1464	0.89473	1028.7	1015.8
In2306	230.606	{4 Cts/S	14261	25.949	0.18196	14242	14279
Y_2243	224.306	{4 Cts/S	21529	35.854	0.16654	21504	21554
Y_3600	360.073	{ 9 Cts/S	^ *****	-----	-----	^-----	193890
Y_3710	371.030	{ 9 Cts/S	54356	211	0.38819	54506	54207

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:50:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0069	0.0001	1.846	0.007	0.0068
Al3082	308.215 {1	In2306	ppm	0.1084	0.0135	12.43	0.0988	0.1179
As1890	189.042 {4	Y_2243	ppm	0.012	0.0002	1.647	0.0119	0.0122
B_2496	249.678 {1	Y_3710	ppm	0.0052	0.002	38.62	0.0038	0.0066
Ba4554	455.403 {	Y_3710	ppm	0.0102	0	0.0584	0.0102	0.0102
Be3130	313.042 {1	Y_3710	ppm	0.0049	0.0001	1.733	0.0049	0.0048
Ca3158	315.887 {1	In2306	ppm	0.1097	0.0042	3.858	0.1067	0.1127
Ca3181	318.128 {1	In2306	ppm	0.0993	0.0043	4.376	0.0962	0.1023
Cd2288	228.802 {4	Y_2243	ppm	0.0053	0.0003	6.116	0.005	0.0055
Co2286	228.616 {4	In2306	ppm	0.01	0.0004	4.024	0.0097	0.0102
Cr2677	267.716 {1	Y_3600	ppm	0.0104	0.0006	5.963	0.0099	0.0108
Cu3247	324.754 {1	Y_3600	ppm	0.009	0.0007	7.692	0.0085	0.0095
Fe2404	240.488 {1	In2306	ppm	0.0992	0.0014	1.413	0.1001	0.0982
K_7664	766.490 {	Y_3710	ppm	0.5184	0.0785	15.14	0.4629	0.5738
K_7698	769.896 {	Y_3710	ppm	0.4748	0.0091	1.917	0.4683	0.4812
Li6707	670.784 {	Y_3710	ppm	0.0093	0.0007	7.036	0.0098	0.0089
Mg2790	279.079 {1	Y_3710	ppm	0.0979	0.0114	11.65	0.0898	0.106
Mn2576	257.610 {1	Y_3600	ppm	0.0105	0.0006	5.284	0.0101	0.0109
Mn2576-2	257.610 {1	Y_3710	ppm	0.0104	0.0013	12.14	0.0113	0.0095
Mo2020	202.030 {4	Y_2243	ppm	0.0121	0.001	7.851	0.0114	0.0128
Na5895	589.592 {	Y_3710	ppm	0.597	0.0095	1.583	0.5904	0.6037
Na8183	818.326 {	Y_3710	ppm	0.3762	0.0323	8.59	0.3534	0.3991
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0007	6.866	0.0096	0.0106
P_1782	178.284 {4	In2306	ppm	0.0063	0.0002	2.507	0.0064	0.0062
Pb2203	220.353 {4	In2306	ppm	0.01	0.0007	7.143	0.0095	0.0105
S_1820	182.034 {4	Y_2243	ppm	-2.147	0.3389	15.78	-1.908	-2.387
Sb2068	206.833 {4	Y_2243	ppm	0.0196	0.0004	2.077	0.0199	0.0193
Se1960	196.090 {4	Y_2243	ppm	0.0099	0.0001	0.6008	0.0099	0.01
Si2516	251.611 {1	Y_3710	ppm	0.0105	0.0062	58.76	0.0149	0.0061
Sn1899	189.989 {4	In2306	ppm	0.0104	0.0011	10.22	0.0096	0.0111
Sr4215	421.552 {	Y_3710	ppm	0.0055	0	0.1899	0.0055	0.0055
Ti3349	334.904 {1	Y_3600	ppm	0.0105	0.0004	3.395	0.0103	0.0108
Tl1908	190.856 {4	In2306	ppm	0.0527	0.022	41.83	0.0371	0.0683
V_2924	292.402 {1	Y_3600	ppm	0.0094	0.0001	1.282	0.0093	0.0095
Zn2062	206.200 {4	In2306	ppm	0.0099	0.0005	4.684	0.0096	0.0102

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1038.7	3.3896	0.32633	1036.3	1041.1
In2306	230.606 {4	Cts/S	15012	215.59	1.4361	15165	14860
Y_2243	224.306 {4	Cts/S	21726	362.24	1.6673	21982	21470
Y_3600	360.073 {	Cts/S	196130	5357.3	2.7315	199920	192340
Y_3710	371.030 {	Cts/S	54012	83.435	0.15448	54071	53953

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:52:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0001	0.0001	185.6	0.0001	0
Al3082	308.215 {1	In2306	ppm	0.0119	0.0036	30.62	0.0145	0.0093
As1890	189.042 {4	Y_2243	ppm	0.001	0.0006	62.36	0.0006	0.0015
B_2496	249.678 {1	Y_3710	ppm	-0.0056	0.0012	21.67	-0.0065	-0.0048
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	9.756	-0.0002	-0.0002
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	56.81	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0057	0.0015	26.37	0.0046	0.0067
Ca3181	318.128 {1	In2306	ppm	0.0297	0.0172	57.74	0.0419	0.0176
Cd2288	228.802 {4	Y_2243	ppm	0	0	198.8	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0	35.54	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	-0.0001	0.0001	73.12	-0.0002	-0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.0013	0.0002	19.27	-0.0014	-0.0011
Fe2404	240.488 {1	In2306	ppm	0.0029	0.0031	105.2	0.0051	0.0007
K_7664	766.490 {	Y_3710	ppm	0.0156	0.0057	36.73	0.0115	0.0196
K_7698	769.896 {	Y_3710	ppm	-0.1076	0.034	31.64	-0.1317	-0.0835
Li6707	670.784 {	Y_3710	ppm	-0.0011	0	0.0248	-0.0011	-0.0011
Mg2790	279.079 {1	Y_3710	ppm	0.0051	0.0291	571.7	-0.0155	0.0257
Mn2576	257.610 {1	Y_3600	ppm	0	0	66.85	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.0005	211.6	0.0006	-0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	41.93	0.0002	0.0003
Na5895	589.592 {	Y_3710	ppm	-0.0074	0.002	26.45	-0.0088	-0.006
Na8183	818.326 {	Y_3710	ppm	-0.0233	0.0414	177.6	-0.0525	0.006
Ni2316	231.604 {4	In2306	ppm	0	0.0003	2808	-0.0002	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0012	0	2.669	-0.0012	-0.0012
Pb2203	220.353 {4	In2306	ppm	-0.0001	0	12.4	-0.0001	-0.0002
S_1820	182.034 {4	Y_2243	ppm	-1.135	0.082	7.228	-1.077	-1.193
Sb2068	206.833 {4	Y_2243	ppm	0.0057	0.0006	11.13	0.0061	0.0052
Se1960	196.090 {4	Y_2243	ppm	-0.0007	0.0005	70.49	-0.001	-0.0003
Si2516	251.611 {1	Y_3710	ppm	0.001	0.0016	162.9	-0.0001	0.0021
Sn1899	189.989 {4	In2306	ppm	0.0001	0	0.6009	0.0001	0.0001
Sr4215	421.552 {	Y_3710	ppm	0.0002	0	1.201	0.0002	0.0002
Ti3349	334.904 {1	Y_3600	ppm	0	0.0001	833.1	-0.0001	0.0001
Tl1908	190.856 {4	In2306	ppm	-0.0067	0.0116	173.1	-0.0149	0.0015
V_2924	292.402 {1	Y_3600	ppm	0	0	112.8	0	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0001	0.0001	171.5	-0.0001	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1032.4	4.1653	0.40346	1035.3	1029.4
In2306	230.606 {4	Cts/S	15030	108.66	0.723	15106	14953
Y_2243	224.306 {4	Cts/S	21694	163.64	0.75429	21810	21578
Y_3600	360.073 {	Cts/S	197770	1820.3	0.9204	196490	199060
Y_3710	371.030 {	Cts/S	53499	2.0879	0.0039	53497	53500

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:56:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.252	0.0006	0.2494	0.2515	0.2524
Al3082	308.215 {1	In2306	ppm	2.445	0.0372	1.523	2.471	2.418
As1890	189.042 {4	Y_2243	ppm	0.4976	0.0114	2.296	0.5057	0.4896
B_2496	249.678 {1	Y_3710	ppm	0.4818	0.0048	1.003	0.4853	0.4784
Ba4554	455.403 {	Y_3710	ppm	0.4858	0.0036	0.7493	0.4884	0.4832
Be3130	313.042 {1	Y_3710	ppm	0.4921	0.0026	0.5254	0.494	0.4903
Ca3158	315.887 {1	In2306	ppm	12.28	0.1251	1.018	12.37	12.19
Ca3181	318.128 {1	In2306	ppm	12.15	0.0863	0.7107	12.21	12.09
Cd2288	228.802 {4	Y_2243	ppm	0.4885	0.01	2.037	0.4956	0.4815
Co2286	228.616 {4	In2306	ppm	0.4797	0.0093	1.928	0.4863	0.4732
Cr2677	267.716 {1	Y_3600	ppm	0.4977	0.0041	0.8276	0.5006	0.4948
Cu3247	324.754 {1	Y_3600	ppm	0.4958	0.0002	0.0359	0.4957	0.496
Fe2404	240.488 {1	In2306	ppm	2.448	0.0267	1.09	2.467	2.429
K_7664	766.490 {	Y_3710	ppm	12.3	0.0456	0.3708	12.34	12.27
K_7698	769.896 {	Y_3710	ppm	12.3	0.155	1.26	12.41	12.19
Li6707	670.784 {	Y_3710	ppm	0.4906	0.0006	0.1202	0.4911	0.4902
Mg2790	279.079 {1	Y_3710	ppm	4.887	0.0379	0.7761	4.914	4.86
Mn2576	257.610 {1	Y_3600	ppm	0.5006	0.0009	0.1896	0.4999	0.5013
Mn2576-2	257.610 {1	Y_3710	ppm	0.4982	0.0045	0.8964	0.5013	0.495
Mo2020	202.030 {4	Y_2243	ppm	0.5046	0.0126	2.498	0.5135	0.4957
Na5895	589.592 {	Y_3710	ppm	12.3	0.0577	0.469	12.34	12.26
Na8183	818.326 {	Y_3710	ppm	12.52	0.0788	0.6296	12.57	12.46
Ni2316	231.604 {4	In2306	ppm	0.4831	0.0087	1.8	0.4893	0.477
P_1782	178.284 {4	In2306	ppm	0.4823	0.0089	1.846	0.4886	0.476
Pb2203	220.353 {4	In2306	ppm	0.483	0.007	1.441	0.4879	0.4781
S_1820	182.034 {4	Y_2243	ppm	-548.4	11.37	2.074	-556.4	-540.4
Sb2068	206.833 {4	Y_2243	ppm	0.4936	0.0127	2.576	0.5026	0.4846
Se1960	196.090 {4	Y_2243	ppm	0.4968	0.0097	1.951	0.5036	0.4899
Si2516	251.611 {1	Y_3710	ppm	0.9384	0.0034	0.3642	0.9408	0.936
Sn1899	189.989 {4	In2306	ppm	0.4857	0.0113	2.334	0.4937	0.4777
Sr4215	421.552 {	Y_3710	ppm	0.2465	0.0013	0.5437	0.2474	0.2455
Ti3349	334.904 {1	Y_3600	ppm	0.4997	0.0033	0.6683	0.5021	0.4974
Tl1908	190.856 {4	In2306	ppm	0.3823	0.0627	16.41	0.4267	0.338
V_2924	292.402 {1	Y_3600	ppm	0.5045	0.0008	0.1597	0.5051	0.5039
Zn2062	206.200 {4	In2306	ppm	0.476	0.0087	1.818	0.4821	0.4699

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1009.9	12.407	1.2285	1001.2	1018.7
In2306	230.606 {4	Cts/S	14185	79.645	0.56146	14129	14242
Y_2243	224.306 {4	Cts/S	21318	156.07	0.73213	21207	21428
Y_3600	360.073 {	Cts/S	193080	302.85	0.15685	193290	192860
Y_3710	371.030 {	Cts/S	53392	322.97	0.6049	53164	53621

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 14:59:03
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.005	0.0005	10.39	0.0046	0.0054
Al3082	308.215	{1 In2306	ppm	0.1091	0.0014	1.328	0.1081	0.1102
As1890	189.042	{4 Y_2243	ppm	0.0112	0.0006	5.339	0.0108	0.0116
B_2496	249.678	{1 Y_3710	ppm	0.0016	0.0001	7.83	0.0017	0.0015
Ba4554	455.403	{ 7 Y_3710	ppm	0.0094	0.0002	2.253	0.0095	0.0092
Be3130	313.042	{1 Y_3710	ppm	0.0049	0	0.0047	0.0049	0.0049
Ca3158	315.887	{1 In2306	ppm	0.1136	0.0072	6.32	0.1085	0.1186
Ca3181	318.128	{1 In2306	ppm	0.112	0.0115	10.24	0.1039	0.1201
Cd2288	228.802	{4 Y_2243	ppm	0.0056	0.0006	11.17	0.0051	0.006
Co2286	228.616	{4 In2306	ppm	0.0102	0.0007	6.44	0.0097	0.0106
Cr2677	267.716	{1 Y_3600	ppm	0.0106	0	0.0393	0.0106	0.0106
Cu3247	324.754	{1 Y_3600	ppm	0.0093	0.0003	3.708	0.0095	0.009
Fe2404	240.488	{1 In2306	ppm	0.0992	0.0003	0.3193	0.099	0.0994
K_7664	766.490	{ 4 Y_3710	ppm	0.587	0.0126	2.14	0.5781	0.5959
K_7698	769.896	{ 4 Y_3710	ppm	0.4813	0.0306	6.367	0.4597	0.503
Li6707	670.784	{ 8 Y_3710	ppm	0.009	0.0001	0.7267	0.009	0.0089
Mg2790	279.079	{1 Y_3710	ppm	0.1024	0.0027	2.659	0.1004	0.1043
Mn2576	257.610	{1 Y_3600	ppm	0.0104	0	0.4022	0.0103	0.0104
Mn2576-2	257.610	{1 Y_3710	ppm	0.0099	0	0.3385	0.0099	0.0099
Mo2020	202.030	{4 Y_2243	ppm	0.0122	0.0013	10.79	0.0113	0.0132
Na5895	589.592	{ 8 Y_3710	ppm	0.5769	0.0011	0.186	0.5761	0.5776
Na8183	818.326	{ 4 Y_3710	ppm	0.697	0.0147	2.111	0.6865	0.7074
Ni2316	231.604	{4 In2306	ppm	0.0104	0.0007	6.389	0.01	0.0109
P_1782	178.284	{4 In2306	ppm	0.0065	0.0001	1.872	0.0066	0.0064
Pb2203	220.353	{4 In2306	ppm	0.0102	0.001	9.739	0.0095	0.0109
S_1820	182.034	{4 Y_2243	ppm	-1.261	0.7185	56.97	-0.7532	-1.769
Sb2068	206.833	{4 Y_2243	ppm	0.0158	0.0011	7.213	0.015	0.0166
Se1960	196.090	{4 Y_2243	ppm	0.0108	0.0014	13.42	0.0097	0.0118
Si2516	251.611	{1 Y_3710	ppm	0.0135	0.0064	47.89	0.0089	0.018
Sn1899	189.989	{4 In2306	ppm	0.011	0.0008	7.269	0.0104	0.0116
Sr4215	421.552	{ 8 Y_3710	ppm	0.005	0	0.0547	0.005	0.005
Ti3349	334.904	{1 Y_3600	ppm	0.0102	0	0.3207	0.0102	0.0102
Tl1908	190.856	{4 In2306	ppm	0.0377	0.0143	37.93	0.0276	0.0478
V_2924	292.402	{1 Y_3600	ppm	0.0103	0.0002	1.902	0.0105	0.0102
Zn2062	206.200	{4 In2306	ppm	0.0101	0.0007	7.199	0.0096	0.0106

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1042.6	15.577	1.494	1053.7	1031.6
In2306	230.606	{4 Cts/S	15053	20.467	0.13597	15038	15067
Y_2243	224.306	{4 Cts/S	21738	43.622	0.20067	21707	21769
Y_3600	360.073	{ 9 Cts/S	196420	316.45	0.1611	196650	196200
Y_3710	371.030	{ 9 Cts/S	54643	485.91	0.88925	54987	54299

[Sample Header]

Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:01:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.002	0.0007	37.05	0.0025	0.0015
Al3082	308.215 {1	In2306	ppm	0.0164	0.0077	46.68	0.0219	0.011
As1890	189.042 {4	Y_2243	ppm	0.0003	0.0004	108.9	0.0001	0.0006
B_2496	249.678 {1	Y_3710	ppm	-0.0054	0.0012	22.44	-0.0046	-0.0063
Ba4554	455.403 {	Y_3710	ppm	0	0.0001	409.9	-0.0001	0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	259.9	0	0
Ca3158	315.887 {1	In2306	ppm	0.0028	0.0008	27.87	0.0034	0.0023
Ca3181	318.128 {1	In2306	ppm	0.0036	0.0022	60.49	0.002	0.0051
Cd2288	228.802 {4	Y_2243	ppm	0	0	82.73	0.0001	0
Co2286	228.616 {4	In2306	ppm	0	0	57.33	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0.0004	282.8	-0.0001	0.0004
Cu3247	324.754 {1	Y_3600	ppm	-0.0013	0.0001	10.63	-0.0012	-0.0014
Fe2404	240.488 {1	In2306	ppm	0.0006	0.0002	40.56	0.0008	0.0004
K_7664	766.490 {	Y_3710	ppm	0.0012	0	2.12	0.0012	0.0011
K_7698	769.896 {	Y_3710	ppm	-0.0472	0.0202	42.8	-0.0615	-0.0329
Li6707	670.784 {	Y_3710	ppm	-0.0019	0.0002	8.244	-0.0021	-0.0018
Mg2790	279.079 {1	Y_3710	ppm	0.0029	0.0123	423.2	-0.0058	0.0116
Mn2576	257.610 {1	Y_3600	ppm	0	0	23.71	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0005	0.0003	53.26	-0.0007	-0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0002	196	0	0.0002
Na5895	589.592 {	Y_3710	ppm	-0.0131	0.0026	19.53	-0.0113	-0.0149
Na8183	818.326 {	Y_3710	ppm	-0.0986	0.1765	179.1	-0.2234	0.0262
Ni2316	231.604 {4	In2306	ppm	0.0001	0	15.86	0.0001	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0014	0.0009	65.05	-0.002	-0.0008
Pb2203	220.353 {4	In2306	ppm	-0.0007	0	1.322	-0.0007	-0.0007
S_1820	182.034 {4	Y_2243	ppm	-0.5964	1.045	175.2	-1.335	0.1423
Sb2068	206.833 {4	Y_2243	ppm	0.0026	0	1.385	0.0026	0.0027
Se1960	196.090 {4	Y_2243	ppm	0.0008	0.0003	44.98	0.0005	0.001
Si2516	251.611 {1	Y_3710	ppm	0.0017	0.0029	171.3	-0.0004	0.0038
Sn1899	189.989 {4	In2306	ppm	0.0003	0	15.6	0.0003	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	73.28	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0004	0	6.408	-0.0004	-0.0003
Tl1908	190.856 {4	In2306	ppm	-0.015	0.0072	48.08	-0.0201	-0.0099
V_2924	292.402 {1	Y_3600	ppm	0	0.0003	773.9	-0.0002	0.0002
Zn2062	206.200 {4	In2306	ppm	0	0	73.52	0	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	998.27	50.012	5.0099	1033.6	962.9
In2306	230.606 {4	Cts/S	14931	125.1	0.83783	15020	14843
Y_2243	224.306 {4	Cts/S	21553	155.83	0.72302	21663	21443
Y_3600	360.073 {	Cts/S	200980	3714.3	1.848	198360	203610
Y_3710	371.030 {	Cts/S	51635	2983.9	5.7788	53745	49525

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=mb 600-87997/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:03:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0003	0.0006	169	0.0007	-0.0001
Al3082	308.215	{1 In2306	ppm	0.0173	0.0145	83.97	0.0276	0.007
As1890	189.042	{4 Y_2243	ppm	0.0005	0.0002	39.83	0.0006	0.0003
B_2496	249.678	{1 Y_3710	ppm	-0.0097	0.0011	11	-0.009	-0.0105
Ba4554	455.403	{ 7 Y_3710	ppm	0.0002	0.0001	77.42	0.0003	0.0001
Be3130	313.042	{1 Y_3710	ppm	0	0	107.6	-0.0001	0
Ca3158	315.887	{1 In2306	ppm	0.0038	0.0013	33.76	0.0048	0.0029
Ca3181	318.128	{1 In2306	ppm	0.0036	0.0062	172	-0.0008	0.008
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0.0001	83.7	0.0001	0
Co2286	228.616	{4 In2306	ppm	0	0	65.04	0	0
Cr2677	267.716	{1 Y_3600	ppm	0.0001	0.0002	151.7	0.0003	0
Cu3247	324.754	{1 Y_3600	ppm	-0.0012	0.0003	29.15	-0.0014	-0.0009
Fe2404	240.488	{1 In2306	ppm	0.003	0.0021	69.37	0.0015	0.0045
K_7664	766.490	{ 4 Y_3710	ppm	-0.0243	0.0101	41.48	-0.0172	-0.0314
K_7698	769.896	{ 4 Y_3710	ppm	-0.1952	0.015	7.704	-0.1845	-0.2058
Li6707	670.784	{ 8 Y_3710	ppm	-0.0012	0.0004	36.35	-0.0009	-0.0015
Mg2790	279.079	{1 Y_3710	ppm	-0.001	0.0148	1501	-0.0115	0.0095
Mn2576	257.610	{1 Y_3600	ppm	-0.0001	0.0001	89.81	-0.0001	0
Mn2576-2	257.610	{1 Y_3710	ppm	0.0002	0.0003	160.7	0.0004	0
Mo2020	202.030	{4 Y_2243	ppm	-0.0001	0.0001	60.05	-0.0002	-0.0001
Na5895	589.592	{ 8 Y_3710	ppm	-0.0112	0.003	27.25	-0.009	-0.0133
Na8183	818.326	{ 4 Y_3710	ppm	-0.0234	0.1246	532.4	0.0647	-0.1115
Ni2316	231.604	{4 In2306	ppm	0.0001	0	57.55	0.0001	0
P_1782	178.284	{4 In2306	ppm	-0.0028	0.0015	51.93	-0.0018	-0.0039
Pb2203	220.353	{4 In2306	ppm	-0.0001	0.0001	168	-0.0001	0
S_1820	182.034	{4 Y_2243	ppm	-0.9548	1.529	160.1	-2.036	0.1262
Sb2068	206.833	{4 Y_2243	ppm	0.0022	0.0005	22.1	0.0026	0.0019
Se1960	196.090	{4 Y_2243	ppm	-0.0006	0.0013	229.3	-0.0015	0.0004
Si2516	251.611	{1 Y_3710	ppm	0.0034	0.0026	77.67	0.0015	0.0053
Sn1899	189.989	{4 In2306	ppm	0.0002	0	12.06	0.0002	0.0002
Sr4215	421.552	{ 8 Y_3710	ppm	0	0	128.8	0	0.0001
Ti3349	334.904	{1 Y_3600	ppm	-0.0003	0.0002	52.54	-0.0004	-0.0002
Tl1908	190.856	{4 In2306	ppm	-0.0326	0.0025	7.75	-0.0344	-0.0308
V_2924	292.402	{1 Y_3600	ppm	0	0	9.616	0	0
Zn2062	206.200	{4 In2306	ppm	0.0024	0	0.5649	0.0024	0.0024

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1054.4	47.723	4.526	1020.7	1088.2
In2306	230.606	{4 Cts/S	15235	257.24	1.6885	15053	15416
Y_2243	224.306	{4 Cts/S	21900	414.79	1.894	21606	22193
Y_3600	360.073	{ 9 Cts/S	191960	7782.7	4.0544	186450	197460
Y_3710	371.030	{ 9 Cts/S	55983	2951.2	5.2715	53896	58070

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=lcs 600-87997/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:06:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5244	0.0025	0.479	0.5226	0.5262
Al3082	308.215 {1	In2306	ppm	10.24	0.016	0.1557	10.23	10.25
As1890	189.042 {4	Y_2243	ppm	1.041	0.0022	0.2136	1.04	1.043
B_2496	249.678 {1	Y_3710	ppm	1.005	0.0054	0.54	1.001	1.009
Ba4554	455.403 {	Y_3710	ppm	1.026	0.0007	0.0677	1.026	1.025
Be3130	313.042 {1	Y_3710	ppm	0.5148	0.0027	0.5255	0.5129	0.5167
Ca3158	315.887 {1	In2306	ppm	10.24	0.0625	0.61	10.2	10.29
Ca3181	318.128 {1	In2306	ppm	10.15	0.0831	0.8182	10.1	10.21
Cd2288	228.802 {4	Y_2243	ppm	0.5144	0.0004	0.0823	0.5141	0.5147
Co2286	228.616 {4	In2306	ppm	1.014	0.0004	0.039	1.013	1.014
Cr2677	267.716 {1	Y_3600	ppm	1.028	0.0011	0.1044	1.028	1.027
Cu3247	324.754 {1	Y_3600	ppm	1.05	0.0016	0.1526	1.049	1.051
Fe2404	240.488 {1	In2306	ppm	10.3	0.0497	0.4826	10.27	10.34
K_7664	766.490 {	Y_3710	ppm	10.25	0.0225	0.2197	10.26	10.23
K_7698	769.896 {	Y_3710	ppm	10.27	0.1173	1.143	10.35	10.18
Li6707	670.784 {	Y_3710	ppm	0.5169	0.0036	0.6995	0.5195	0.5144
Mg2790	279.079 {1	Y_3710	ppm	10.1	0.1444	1.429	10	10.21
Mn2576	257.610 {1	Y_3600	ppm	1.035	0.0045	0.4331	1.032	1.039
Mn2576-2	257.610 {1	Y_3710	ppm	1.019	0.0062	0.6117	1.015	1.024
Mo2020	202.030 {4	Y_2243	ppm	1.06	0.0008	0.0729	1.06	1.061
Na5895	589.592 {	Y_3710	ppm	10.31	0.0302	0.2926	10.34	10.29
Na8183	818.326 {	Y_3710	ppm	10.39	0.1266	1.218	10.3	10.48
Ni2316	231.604 {4	In2306	ppm	1.014	0.0003	0.0263	1.015	1.014
P_1782	178.284 {4	In2306	ppm	-0.0039	0.0002	4.651	-0.0038	-0.004
Pb2203	220.353 {4	In2306	ppm	1.014	0.0019	0.1895	1.013	1.015
S_1820	182.034 {4	Y_2243	ppm	-0.5269	0.9786	185.7	0.1651	-1.219
Sb2068	206.833 {4	Y_2243	ppm	1.038	0.0001	0.0103	1.038	1.038
Se1960	196.090 {4	Y_2243	ppm	1.042	0.002	0.1936	1.041	1.043
Si2516	251.611 {1	Y_3710	ppm	0.9683	0.0054	0.5623	0.9645	0.9722
Sn1899	189.989 {4	In2306	ppm	1.016	0.0026	0.2602	1.014	1.018
Sr4215	421.552 {	Y_3710	ppm	0.5173	0.0011	0.2165	0.5181	0.5165
Ti3349	334.904 {1	Y_3600	ppm	1.038	0.0006	0.0607	1.038	1.039
Tl1908	190.856 {4	In2306	ppm	0.9919	0.1064	10.73	1.067	0.9166
V_2924	292.402 {1	Y_3600	ppm	1.04	0.0018	0.1713	1.042	1.039
Zn2062	206.200 {4	In2306	ppm	0.9968	0.0024	0.2396	0.9951	0.9985

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1009.2	12.396	1.2284	1017.9	1000.4
In2306	230.606 {4	Cts/S	14081	6.2955	0.04471	14085	14076
Y_2243	224.306 {4	Cts/S	21372	8.5266	0.0399	21378	21366
Y_3600	360.073 {	Cts/S	194140	176.73	0.09103	194020	194270
Y_3710	371.030 {	Cts/S	54287	673.43	1.2405	54763	53811

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60904-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:08:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0023	794.9	0.0019	-0.0013
Al3082	308.215 {1	In2306	ppm	0.0521	0.0106	20.41	0.0596	0.0446
As1890	189.042 {4	Y_2243	ppm	0.0097	0.0007	6.996	0.0092	0.0102
B_2496	249.678 {1	Y_3710	ppm	0.3036	0.0037	1.221	0.3063	0.301
Ba4554	455.403 {	Y_3710	ppm	0.1586	0	0.0043	0.1586	0.1585
Be3130	313.042 {1	Y_3710	ppm	0	0	726	0	0
Ca3158	315.887 {1	In2306	ppm	64.84	0.5466	0.843	64.45	65.22
Ca3181	318.128 {1	In2306	ppm	63.97	0.3689	0.5766	63.71	64.23
Cd2288	228.802 {4	Y_2243	ppm	0.0011	0.0011	101.7	0.0003	0.0019
Co2286	228.616 {4	In2306	ppm	0.0019	0.0028	149	-0.0001	0.0039
Cr2677	267.716 {1	Y_3600	ppm	0.001	0.0002	20.98	0.0012	0.0009
Cu3247	324.754 {1	Y_3600	ppm	0.0002	0.0005	316	-0.0002	0.0005
Fe2404	240.488 {1	In2306	ppm	0.1021	0.0029	2.853	0.1001	0.1042
K_7664	766.490 {	Y_3710	ppm	10.74	0.0301	0.2807	10.76	10.72
K_7698	769.896 {	Y_3710	ppm	10.88	0.0405	0.3723	10.85	10.91
Li6707	670.784 {	Y_3710	ppm	0.0232	0.0009	3.85	0.0226	0.0238
Mg2790	279.079 {1	Y_3710	ppm	16.47	0.1404	0.8522	16.57	16.37
Mn2576	257.610 {1	Y_3600	ppm	0.031	0	0.0655	0.031	0.031
Mn2576-2	257.610 {1	Y_3710	ppm	0.0304	0.0004	1.199	0.0301	0.0306
Mo2020	202.030 {4	Y_2243	ppm	0.1495	0.001	0.6423	0.1502	0.1488
Na5895	589.592 {	Y_3710	ppm	401.5	6.615	1.648	406.2	396.8
Na8183	818.326 {	Y_3710	ppm	432.5	0.1595	0.0369	432.7	432.4
Ni2316	231.604 {4	In2306	ppm	0.0048	0.0025	53.41	0.003	0.0066
P_1782	178.284 {4	In2306	ppm	0.1912	0.0046	2.382	0.1944	0.1879
Pb2203	220.353 {4	In2306	ppm	0.0013	0.0015	113.5	0.0003	0.0024
S_1820	182.034 {4	Y_2243	ppm	-59700	1790	2.998	-60970	-58430
Sb2068	206.833 {4	Y_2243	ppm	0.0132	0.006	45.12	0.009	0.0174
Se1960	196.090 {4	Y_2243	ppm	0.0054	0.0023	42.36	0.0038	0.007
Si2516	251.611 {1	Y_3710	ppm	7.111	0.0193	0.2715	7.124	7.097
Sn1899	189.989 {4	In2306	ppm	0.0035	0.0036	103.1	0.001	0.0061
Sr4215	421.552 {	Y_3710	ppm	0.7708	0.002	0.2632	0.7694	0.7722
Ti3349	334.904 {1	Y_3600	ppm	0.0017	0.0002	11.19	0.0018	0.0015
Tl1908	190.856 {4	In2306	ppm	0.1241	0.0321	25.85	0.1014	0.1468
V_2924	292.402 {1	Y_3600	ppm	0.0131	0.0002	1.212	0.0132	0.013
Zn2062	206.200 {4	In2306	ppm	0.0216	0.0021	9.522	0.0202	0.0231

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	982.49	6.5467	0.66633	987.12	977.86
In2306	230.606 {4	Cts/S	11787	296.21	2.5131	11577	11996
Y_2243	224.306 {4	Cts/S	19451	495.56	2.5478	19100	19801
Y_3600	360.073 {	Cts/S	176500	3.1863	0.00181	176500	176500
Y_3710	371.030 {	Cts/S	53194	296.95	0.55824	52984	53404

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60904-d-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:10:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0008	0.0015	200.5	0.0019	-0.0003
Al3082	308.215 {1	In2306	ppm	0.0858	0.01	11.61	0.0787	0.0928
As1890	189.042 {4	Y_2243	ppm	0.0079	0.001	13.2	0.0086	0.0071
B_2496	249.678 {1	Y_3710	ppm	0.3074	0.0027	0.8837	0.3054	0.3093
Ba4554	455.403 {	Y_3710	ppm	0.1636	0.0008	0.5146	0.163	0.1642
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	39.99	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	68.52	0.3454	0.504	68.28	68.77
Ca3181	318.128 {1	In2306	ppm	67.18	0.3532	0.5257	66.93	67.43
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0001	70.67	0.0001	0.0003
Co2286	228.616 {4	In2306	ppm	0.0002	0.0002	113.9	0	0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0014	0.0001	3.578	0.0014	0.0014
Cu3247	324.754 {1	Y_3600	ppm	-0.0008	0.0004	53.61	-0.0005	-0.0011
Fe2404	240.488 {1	In2306	ppm	0.1186	0.0045	3.809	0.1154	0.1218
K_7664	766.490 {	Y_3710	ppm	11.12	0.0262	0.2359	11.14	11.1
K_7698	769.896 {	Y_3710	ppm	11.24	0.0749	0.6664	11.19	11.29
Li6707	670.784 {	Y_3710	ppm	0.0242	0.0004	1.841	0.0239	0.0245
Mg2790	279.079 {1	Y_3710	ppm	17.02	0.007	0.0409	17.02	17.03
Mn2576	257.610 {1	Y_3600	ppm	0.0351	0	0.1411	0.0351	0.035
Mn2576-2	257.610 {1	Y_3710	ppm	0.0342	0.0004	1.314	0.0346	0.0339
Mo2020	202.030 {4	Y_2243	ppm	0.1453	0.0003	0.2095	0.1451	0.1455
Na5895	589.592 {	Y_3710	ppm	414.2	1.653	0.3992	415.3	413
Na8183	818.326 {	Y_3710	ppm	446.9	1.868	0.418	445.6	448.3
Ni2316	231.604 {4	In2306	ppm	0.003	0.0002	6.051	0.0029	0.0031
P_1782	178.284 {4	In2306	ppm	0.1967	0.0007	0.3529	0.1972	0.1962
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0001	13.9	0.0005	0.0006
S_1820	182.034 {4	Y_2243	ppm	-59600	85.45	0.1434	-59540	-59660
Sb2068	206.833 {4	Y_2243	ppm	0.0067	0.0001	1.928	0.0068	0.0066
Se1960	196.090 {4	Y_2243	ppm	0.0022	0.0007	32.22	0.0027	0.0017
Si2516	251.611 {1	Y_3710	ppm	7.352	0.0262	0.3564	7.333	7.37
Sn1899	189.989 {4	In2306	ppm	0.0004	0	1.126	0.0004	0.0004
Sr4215	421.552 {	Y_3710	ppm	0.7983	0.0035	0.4332	0.7958	0.8007
Ti3349	334.904 {1	Y_3600	ppm	0.0004	0	5.663	0.0004	0.0004
Tl1908	190.856 {4	In2306	ppm	0.0252	0.0183	72.87	0.0122	0.0381
V_2924	292.402 {1	Y_3600	ppm	0.0137	0.0001	0.9179	0.0136	0.0138
Zn2062	206.200 {4	In2306	ppm	0.0609	0.0002	0.2698	0.0608	0.0611

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	962.7	5.1856	0.53866	966.36	959.03
In2306	230.606 {4	Cts/S	11945	1.989	0.01665	11943	11946
Y_2243	224.306 {4	Cts/S	19717	1.5541	0.00788	19716	19718
Y_3600	360.073 {	Cts/S	176200	651	0.36946	175740	176660
Y_3710	371.030 {	Cts/S	52211	68.68	0.13154	52260	52162

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60904-d-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:13:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5586	0.0002	0.0397	0.5585	0.5588
Al3082	308.215	{1 In2306	ppm	10.65	0.1829	1.717	10.52	10.78
As1890	189.042	{4 Y_2243	ppm	1.087	0.0025	0.2306	1.085	1.089
B_2496	249.678	{1 Y_3710	ppm	1.337	0.02	1.496	1.323	1.351
Ba4554	455.403	{ 7 Y_3710	ppm	1.195	0.0126	1.051	1.186	1.204
Be3130	313.042	{1 Y_3710	ppm	0.5237	0.0069	1.313	0.5188	0.5286
Ca3158	315.887	{1 In2306	ppm	78.33	0.9831	1.255	77.63	79.02
Ca3181	318.128	{1 In2306	ppm	77.03	1.489	1.933	75.97	78.08
Cd2288	228.802	{4 Y_2243	ppm	0.5256	0.0044	0.8416	0.5225	0.5287
Co2286	228.616	{4 In2306	ppm	1.06	0.0095	0.9	1.053	1.067
Cr2677	267.716	{1 Y_3600	ppm	1.015	0.0101	0.9961	1.023	1.008
Cu3247	324.754	{1 Y_3600	ppm	1.066	0.0058	0.5462	1.07	1.062
Fe2404	240.488	{1 In2306	ppm	10.48	0.1992	1.901	10.34	10.62
K_7664	766.490	{ 4 Y_3710	ppm	21.69	0.2162	0.9968	21.53	21.84
K_7698	769.896	{ 4 Y_3710	ppm	21.93	0.2784	1.269	21.74	22.13
Li6707	670.784	{ 5 Y_3710	ppm	0.548	0.0056	1.028	0.544	0.552
Mg2790	279.079	{1 Y_3710	ppm	27.08	0.3385	1.25	26.84	27.32
Mn2576	257.610	{1 Y_3600	ppm	1.061	0.0006	0.0561	1.061	1.061
Mn2576-2	257.610	{1 Y_3710	ppm	1.063	0.0008	0.0737	1.062	1.064
Mo2020	202.030	{4 Y_2243	ppm	1.179	0.0063	0.5355	1.174	1.183
Na5895	589.592	{ 5 Y_3710	ppm	421.4	1.556	0.3692	420.3	422.5
Na8183	818.326	{ 4 Y_3710	ppm	454.6	4.626	1.018	451.3	457.9
Ni2316	231.604	{4 In2306	ppm	1.061	0.0085	0.7995	1.055	1.067
P_1782	178.284	{4 In2306	ppm	0.2074	0.0024	1.161	0.2057	0.2091
Pb2203	220.353	{4 In2306	ppm	1.028	0.0082	0.8018	1.023	1.034
S_1820	182.034	{4 Y_2243	ppm	-58350	473.3	0.8111	-58010	-58680
Sb2068	206.833	{4 Y_2243	ppm	1.056	0.0068	0.6486	1.051	1.061
Se1960	196.090	{4 Y_2243	ppm	1.094	0.0071	0.6508	1.089	1.099
Si2516	251.611	{1 Y_3710	ppm	8.333	0.125	1.5	8.245	8.421
Sn1899	189.989	{4 In2306	ppm	1.066	0.0074	0.6986	1.061	1.071
Sr4215	421.552	{ 8 Y_3710	ppm	1.316	0.0134	1.015	1.307	1.326
Ti3349	334.904	{1 Y_3600	ppm	1.047	0.0087	0.8355	1.053	1.041
Tl1908	190.856	{4 In2306	ppm	0.9389	0.0786	8.37	0.9944	0.8833
V_2924	292.402	{1 Y_3600	ppm	1.061	0.0064	0.6015	1.066	1.057
Zn2062	206.200	{4 In2306	ppm	1.131	0.0098	0.8643	1.124	1.138

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	969.27	12.156	1.2541	977.87	960.68
In2306	230.606	{4 Cts/S	11857	85.965	0.72503	11918	11796
Y_2243	224.306	{4 Cts/S	19893	136.7	0.68718	19989	19796
Y_3600	360.073	{ 9 Cts/S	177110	516.21	0.29147	176740	177470
Y_3710	371.030	{ 9 Cts/S	52601	225.82	0.42931	52761	52441

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60904-d-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:15:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.55	0.0277	5.033	0.5304	0.5696
Al3082	308.215	{1 In2306	ppm	10.61	0.1744	1.643	10.49	10.73
As1890	189.042	{4 Y_2243	ppm	1.119	0.0032	0.2887	1.122	1.117
B_2496	249.678	{1 Y_3710	ppm	1.344	0.0238	1.773	1.327	1.361
Ba4554	455.403	{ 7 Y_3710	ppm	1.198	0.0189	1.574	1.185	1.212
Be3130	313.042	{1 Y_3710	ppm	0.5245	0.0072	1.366	0.5195	0.5296
Ca3158	315.887	{1 In2306	ppm	77.04	0.6579	0.854	76.57	77.5
Ca3181	318.128	{1 In2306	ppm	75.61	0.8922	1.18	74.98	76.24
Cd2288	228.802	{4 Y_2243	ppm	0.5352	0.0004	0.0667	0.535	0.5355
Co2286	228.616	{4 In2306	ppm	1.081	0.0011	0.104	1.08	1.081
Cr2677	267.716	{1 Y_3600	ppm	1.003	0.0511	5.098	0.9667	1.039
Cu3247	324.754	{1 Y_3600	ppm	1.053	0.0526	4.998	1.016	1.09
Fe2404	240.488	{1 In2306	ppm	10.43	0.0904	0.8663	10.37	10.5
K_7664	766.490	{ 4 Y_3710	ppm	21.71	0.3739	1.722	21.45	21.98
K_7698	769.896	{ 4 Y_3710	ppm	21.94	0.398	1.814	21.66	22.22
Li6707	670.784	{ 8 Y_3710	ppm	0.5524	0.009	1.622	0.546	0.5587
Mg2790	279.079	{1 Y_3710	ppm	27.03	0.3018	1.116	26.82	27.25
Mn2576	257.610	{1 Y_3600	ppm	1.044	0.0532	5.1	1.006	1.081
Mn2576-2	257.610	{1 Y_3710	ppm	1.063	0.0123	1.162	1.054	1.072
Mo2020	202.030	{4 Y_2243	ppm	1.199	0.0001	0.0048	1.199	1.199
Na5895	589.592	{ 8 Y_3710	ppm	426.4	4.891	1.147	422.9	429.9
Na8183	818.326	{ 4 Y_3710	ppm	453.5	6.463	1.425	448.9	458.1
Ni2316	231.604	{4 In2306	ppm	1.081	0.0013	0.1162	1.082	1.08
P_1782	178.284	{4 In2306	ppm	0.192	0.0027	1.385	0.1939	0.1901
Pb2203	220.353	{4 In2306	ppm	1.044	0.0012	0.1128	1.045	1.043
S_1820	182.034	{4 Y_2243	ppm	-59050	12.3	0.0208	-59040	-59060
Sb2068	206.833	{4 Y_2243	ppm	1.083	0.0017	0.1528	1.084	1.082
Se1960	196.090	{4 Y_2243	ppm	1.114	0.0009	0.0836	1.113	1.115
Si2516	251.611	{1 Y_3710	ppm	8.274	0.1027	1.241	8.202	8.347
Sn1899	189.989	{4 In2306	ppm	1.083	0.0018	0.1664	1.084	1.081
Sr4215	421.552	{ 8 Y_3710	ppm	1.317	0.0202	1.534	1.303	1.331
Ti3349	334.904	{1 Y_3600	ppm	1.033	0.0542	5.249	0.9948	1.071
Tl1908	190.856	{4 In2306	ppm	1.115	0.0512	4.593	1.151	1.079
V_2924	292.402	{1 Y_3600	ppm	1.05	0.0542	5.163	1.012	1.089
Zn2062	206.200	{4 In2306	ppm	1.187	0.0017	0.1394	1.188	1.185

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	976.1	7.947	0.81416	981.72	970.48
In2306	230.606	{4 Cts/S	11720	38.706	0.33026	11747	11693
Y_2243	224.306	{4 Cts/S	19686	65.306	0.33174	19732	19640
Y_3600	360.073	{ 9 Cts/S	179310	7357.6	4.1033	184510	174110
Y_3710	371.030	{ 9 Cts/S	52593	529.72	1.0072	52967	52218

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60879-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:17:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0007	0.0004	54.64	-0.0004	-0.001
Al3082	308.215	{1 In2306	ppm	0.1973	0.009	4.541	0.1909	0.2036
As1890	189.042	{4 Y_2243	ppm	0.0117	0.0008	6.543	0.0112	0.0123
B_2496	249.678	{1 Y_3710	ppm	0.1067	0.0029	2.758	0.1046	0.1088
Ba4554	455.403	{ 7 Y_3710	ppm	0.0864	0.0034	3.992	0.0839	0.0888
Be3130	313.042	{1 Y_3710	ppm	0	0	36.6	0	0
Ca3158	315.887	{1 In2306	ppm	22.27	0.7798	3.502	21.72	22.82
Ca3181	318.128	{1 In2306	ppm	22.11	0.8261	3.737	21.53	22.69
Cd2288	228.802	{4 Y_2243	ppm	0.0004	0.0003	74.3	0.0002	0.0007
Co2286	228.616	{4 In2306	ppm	0.0002	0.0006	283	-0.0002	0.0006
Cr2677	267.716	{1 Y_3600	ppm	0.0066	0.0002	3.522	0.0064	0.0067
Cu3247	324.754	{1 Y_3600	ppm	0.0255	0.0006	2.159	0.0251	0.0259
Fe2404	240.488	{1 In2306	ppm	1.256	0.0495	3.944	1.221	1.291
K_7664	766.490	{ 4 Y_3710	ppm	7.372	0.2455	3.33	7.198	7.546
K_7698	769.896	{ 4 Y_3710	ppm	7.363	0.1743	2.367	7.24	7.486
Li6707	670.784	{ 8 Y_3710	ppm	0.0106	0.0002	2.325	0.0104	0.0108
Mg2790	279.079	{1 Y_3710	ppm	6.705	0.2396	3.574	6.536	6.874
Mn2576	257.610	{1 Y_3600	ppm	0.1566	0.0053	3.413	0.1528	0.1604
Mn2576-2	257.610	{1 Y_3710	ppm	0.1572	0.0053	3.39	0.1534	0.161
Mo2020	202.030	{4 Y_2243	ppm	0.6572	0.0032	0.4811	0.6549	0.6594
Na5895	589.592	{ 8 Y_3710	ppm	72.73	2.477	3.405	70.98	74.48
Na8183	818.326	{ 4 Y_3710	ppm	74.95	2.372	3.165	73.27	76.63
Ni2316	231.604	{4 In2306	ppm	0.0051	0.0006	11.16	0.0047	0.0055
P_1782	178.284	{4 In2306	ppm	2.613	0.008	0.3064	2.607	2.619
Pb2203	220.353	{4 In2306	ppm	0.0021	0	0.1375	0.0021	0.0021
S_1820	182.034	{4 Y_2243	ppm	-7972	39.71	0.4981	-7944	-8000
Sb2068	206.833	{4 Y_2243	ppm	0.0096	0.0019	19.7	0.0083	0.011
Se1960	196.090	{4 Y_2243	ppm	0.0019	0.0024	128.5	0.0002	0.0036
Si2516	251.611	{1 Y_3710	ppm	15.18	0.5262	3.467	14.8	15.55
Sn1899	189.989	{4 In2306	ppm	0.0018	0.0012	65.59	0.001	0.0027
Sr4215	421.552	{ 8 Y_3710	ppm	0.1934	0.007	3.635	0.1884	0.1983
Ti3349	334.904	{1 Y_3600	ppm	0.0045	0.0005	10.18	0.0042	0.0048
Tl1908	190.856	{4 In2306	ppm	0.1521	0.0526	34.56	0.1149	0.1892
V_2924	292.402	{1 Y_3600	ppm	0.0004	0.0002	55.45	0.0003	0.0006
Zn2062	206.200	{4 In2306	ppm	0.0678	0.0011	1.571	0.067	0.0685

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1001.9	24.028	2.3982	1018.9	984.94
In2306	230.606	{4 Cts/S	13561	74.584	0.54998	13614	13508
Y_2243	224.306	{4 Cts/S	20834	99.135	0.47583	20904	20764
Y_3600	360.073	{ 9 Cts/S	187420	4179.8	2.2302	190370	184460
Y_3710	371.030	{ 9 Cts/S	52744	1094.4	2.075	53518	51970

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60879-a-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:20:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0002	0.0002	95.8	0.0001	0.0004
Al3082	308.215	{1 In2306	ppm	0.0589	0.0103	17.45	0.0517	0.0662
As1890	189.042	{4 Y_2243	ppm	0.0116	0.0008	7.048	0.011	0.0121
B_2496	249.678	{1 Y_3710	ppm	0.0853	0.0003	0.3485	0.0851	0.0855
Ba4554	455.403	{ 7 Y_3710	ppm	0.0851	0.0005	0.6211	0.0855	0.0847
Be3130	313.042	{1 Y_3710	ppm	0	0	302.1	0	0
Ca3158	315.887	{1 In2306	ppm	22.64	0.1425	0.6294	22.74	22.53
Ca3181	318.128	{1 In2306	ppm	22.59	0.0518	0.2291	22.56	22.63
Cd2288	228.802	{4 Y_2243	ppm	0.0003	0.0001	34.48	0.0002	0.0003
Co2286	228.616	{4 In2306	ppm	-0.0004	0	0.1625	-0.0004	-0.0004
Cr2677	267.716	{1 Y_3600	ppm	0.0054	0.0003	4.944	0.0052	0.0056
Cu3247	324.754	{1 Y_3600	ppm	0.0153	0	0.0012	0.0153	0.0153
Fe2404	240.488	{1 In2306	ppm	1.24	0.0083	0.6731	1.246	1.235
K_7664	766.490	{ 4 Y_3710	ppm	7.406	0.0244	0.3297	7.389	7.423
K_7698	769.896	{ 4 Y_3710	ppm	7.388	0.0415	0.5623	7.358	7.417
Li6707	670.784	{ 8 Y_3710	ppm	0.0112	0	0.1322	0.0112	0.0112
Mg2790	279.079	{1 Y_3710	ppm	6.704	0.0412	0.6149	6.675	6.733
Mn2576	257.610	{1 Y_3600	ppm	0.1672	0.0026	1.53	0.169	0.1654
Mn2576-2	257.610	{1 Y_3710	ppm	0.1656	0.0014	0.8242	0.1666	0.1647
Mo2020	202.030	{4 Y_2243	ppm	0.6693	0.0019	0.2886	0.6707	0.668
Na5895	589.592	{ 8 Y_3710	ppm	72.82	0.0994	0.1366	72.75	72.89
Na8183	818.326	{ 4 Y_3710	ppm	75.05	0.1455	0.1939	74.94	75.15
Ni2316	231.604	{4 In2306	ppm	0.0047	0.0001	2.106	0.0046	0.0048
P_1782	178.284	{4 In2306	ppm	2.691	0.0116	0.4309	2.683	2.699
Pb2203	220.353	{4 In2306	ppm	0.0022	0.0007	34.14	0.0016	0.0027
S_1820	182.034	{4 Y_2243	ppm	-8333	10.72	0.1286	-8340	-8325
Sb2068	206.833	{4 Y_2243	ppm	0.004	0.0008	20.88	0.0034	0.0045
Se1960	196.090	{4 Y_2243	ppm	0.0004	0.0013	328.2	-0.0005	0.0013
Si2516	251.611	{1 Y_3710	ppm	14.92	0.1006	0.6741	14.85	14.99
Sn1899	189.989	{4 In2306	ppm	0.0005	0.0001	18.98	0.0004	0.0006
Sr4215	421.552	{ 8 Y_3710	ppm	0.1956	0.0005	0.2611	0.196	0.1953
Ti3349	334.904	{1 Y_3600	ppm	0.0008	0.0001	17.5	0.0009	0.0007
Tl1908	190.856	{4 In2306	ppm	0.0376	0.0247	65.62	0.0201	0.055
V_2924	292.402	{1 Y_3600	ppm	0.0004	0.0001	15	0.0003	0.0004
Zn2062	206.200	{4 In2306	ppm	0.0823	0.0008	0.9545	0.0818	0.0829

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1017.2	1.4851	0.146	1016.2	1018.3
In2306	230.606	{4 Cts/S	13488	41.786	0.30981	13517	13458
Y_2243	224.306	{4 Cts/S	20734	1.233	0.00595	20735	20734
Y_3600	360.073	{ 9 Cts/S	190440	2156.9	1.1326	188920	191970
Y_3710	371.030	{ 9 Cts/S	53788	187.13	0.3479	53921	53656

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=PDS 600-60904-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:22:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5201	0.0028	0.5311	0.5181	0.5221
Al3082	308.215 {1	In2306	ppm	10.13	0.0788	0.7773	10.19	10.08
As1890	189.042 {4	Y_2243	ppm	1.063	0.0035	0.3312	1.065	1.061
B_2496	249.678 {1	Y_3710	ppm	1.292	0.0036	0.2773	1.295	1.29
Ba4554	455.403 {	Y_3710	ppm	1.148	0.0043	0.3744	1.151	1.145
Be3130	313.042 {1	Y_3710	ppm	0.4955	0.0004	0.0769	0.4952	0.4958
Ca3158	315.887 {1	In2306	ppm	75.27	0.9876	1.312	75.96	74.57
Ca3181	318.128 {1	In2306	ppm	74.55	0.431	0.5782	74.85	74.24
Cd2288	228.802 {4	Y_2243	ppm	0.5097	0.0031	0.6037	0.5119	0.5075
Co2286	228.616 {4	In2306	ppm	1.016	0.0062	0.6149	1.02	1.011
Cr2677	267.716 {1	Y_3600	ppm	0.9731	0.0055	0.5637	0.9693	0.977
Cu3247	324.754 {1	Y_3600	ppm	1.009	0.0006	0.0641	1.008	1.009
Fe2404	240.488 {1	In2306	ppm	9.909	0.0686	0.6919	9.958	9.861
K_7664	766.490 {	Y_3710	ppm	20.95	0.1473	0.703	21.05	20.84
K_7698	769.896 {	Y_3710	ppm	21.09	0.1174	0.5565	21.17	21.01
Li6707	670.784 {	Y_3710	ppm	1.031	0.0088	0.8513	1.037	1.025
Mg2790	279.079 {1	Y_3710	ppm	26.34	0.0985	0.3738	26.27	26.41
Mn2576	257.610 {1	Y_3600	ppm	0.9995	0.0078	0.7817	0.994	1.005
Mn2576-2	257.610 {1	Y_3710	ppm	1.005	0.0061	0.6065	1.01	1.001
Mo2020	202.030 {4	Y_2243	ppm	1.11	0.006	0.5398	1.114	1.106
Na5895	589.592 {	Y_3710	ppm	416.4	0.917	0.2202	415.7	417
Na8183	818.326 {	Y_3710	ppm	445.4	1.604	0.3602	446.5	444.2
Ni2316	231.604 {4	In2306	ppm	1.022	0.0087	0.8478	1.028	1.016
P_1782	178.284 {4	In2306	ppm	1.343	0.0052	0.387	1.347	1.34
Pb2203	220.353 {4	In2306	ppm	0.9971	0.0042	0.4259	1	0.9941
S_1820	182.034 {4	Y_2243	ppm	-57670	197.5	0.3424	-57810	-57530
Sb2068	206.833 {4	Y_2243	ppm	1.014	0.017	1.672	1.026	1.002
Se1960	196.090 {4	Y_2243	ppm	1.058	0.0027	0.2567	1.06	1.056
Si2516	251.611 {1	Y_3710	ppm	8.214	0.0644	0.7844	8.168	8.259
Sn1899	189.989 {4	In2306	ppm	1.018	0.0098	0.9625	1.025	1.011
Sr4215	421.552 {	Y_3710	ppm	1.27	0.0068	0.5347	1.275	1.265
Ti3349	334.904 {1	Y_3600	ppm	0.9931	0.0046	0.4671	0.9898	0.9964
Tl1908	190.856 {4	In2306	ppm	1.016	0.0385	3.791	1.043	0.9884
V_2924	292.402 {1	Y_3600	ppm	1.007	0.0071	0.708	1.002	1.012
Zn2062	206.200 {4	In2306	ppm	1.094	0.0093	0.8501	1.101	1.087

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	965.58	6.4661	0.66966	961.01	970.15
In2306	230.606 {4	Cts/S	11727	32.149	0.27414	11704	11750
Y_2243	224.306 {4	Cts/S	19690	34.293	0.17416	19666	19714
Y_3600	360.073 {	Cts/S	176850	966.29	0.54639	177530	176170
Y_3710	371.030 {	Cts/S	52066	63.136	0.12126	52110	52021

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=SD 600-60904-d-1-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:24:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0005	0.0012	251.2	-0.0014	0.0004
Al3082	308.215 {1	In2306	ppm	0.0173	0.0071	41.07	0.0122	0.0223
As1890	189.042 {4	Y_2243	ppm	0.0028	0.0005	17.83	0.0024	0.0032
B_2496	249.678 {1	Y_3710	ppm	0.058	0.0013	2.247	0.057	0.0589
Ba4554	455.403 {	Y_3710	ppm	0.0325	0.0007	2.012	0.033	0.032
Be3130	313.042 {1	Y_3710	ppm	0	0	1002	0	0
Ca3158	315.887 {1	In2306	ppm	13.17	0.2205	1.674	13.33	13.02
Ca3181	318.128 {1	In2306	ppm	13.11	0.3	2.288	13.32	12.9
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0003	140.4	0	0.0004
Co2286	228.616 {4	In2306	ppm	0.0005	0.0005	106.2	0.0001	0.0008
Cr2677	267.716 {1	Y_3600	ppm	0.0006	0.0001	10.41	0.0006	0.0005
Cu3247	324.754 {1	Y_3600	ppm	-0.0014	0.0004	32.62	-0.0011	-0.0017
Fe2404	240.488 {1	In2306	ppm	0.0221	0.0043	19.5	0.0251	0.019
K_7664	766.490 {	Y_3710	ppm	2.194	0.1078	4.912	2.27	2.117
K_7698	769.896 {	Y_3710	ppm	2.103	0.0356	1.69	2.128	2.078
Li6707	670.784 {	Y_3710	ppm	0.0037	0	0.21	0.0037	0.0037
Mg2790	279.079 {1	Y_3710	ppm	3.43	0.0944	2.751	3.497	3.363
Mn2576	257.610 {1	Y_3600	ppm	0.0062	0.0001	1.472	0.0062	0.0063
Mn2576-2	257.610 {1	Y_3710	ppm	0.006	0.0004	6.54	0.0063	0.0057
Mo2020	202.030 {4	Y_2243	ppm	0.0319	0.0008	2.55	0.0313	0.0325
Na5895	589.592 {	Y_3710	ppm	84.74	2.284	2.695	86.36	83.13
Na8183	818.326 {	Y_3710	ppm	87.31	0.9226	1.057	87.96	86.66
Ni2316	231.604 {4	In2306	ppm	0.0011	0.0006	58.5	0.0006	0.0015
P_1782	178.284 {4	In2306	ppm	0.029	0.0021	7.072	0.0305	0.0276
Pb2203	220.353 {4	In2306	ppm	-0.0003	0.0007	206	0.0001	-0.0008
S_1820	182.034 {4	Y_2243	ppm	-11120	195.7	1.759	-11260	-10980
Sb2068	206.833 {4	Y_2243	ppm	0.0053	0.0004	7.534	0.005	0.0056
Se1960	196.090 {4	Y_2243	ppm	0.0004	0.0015	363.8	-0.0006	0.0015
Si2516	251.611 {1	Y_3710	ppm	1.46	0.0458	3.138	1.493	1.428
Sn1899	189.989 {4	In2306	ppm	0.0016	0.001	64.23	0.0009	0.0023
Sr4215	421.552 {	Y_3710	ppm	0.1565	0.0036	2.279	0.159	0.154
Ti3349	334.904 {1	Y_3600	ppm	0.0009	0	4.407	0.0009	0.0008
Tl1908	190.856 {4	In2306	ppm	0.0473	0.0189	40.04	0.0339	0.0607
V_2924	292.402 {1	Y_3600	ppm	0.0025	0.0001	5.052	0.0026	0.0024
Zn2062	206.200 {4	In2306	ppm	0.0141	0.0001	0.8162	0.014	0.0141

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	994.05	14.018	1.4102	984.14	1004
In2306	230.606 {4	Cts/S	13704	223.57	1.6314	13546	13862
Y_2243	224.306 {4	Cts/S	21126	316.34	1.4974	20902	21349
Y_3600	360.073 {	Cts/S	188390	447.75	0.23767	188710	188070
Y_3710	371.030 {	Cts/S	52524	961.82	1.8312	51844	53204

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:27:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2563	0.0024	0.922	0.2546	0.258
Al3082	308.215 {1	In2306	ppm	2.426	0.0733	3.02	2.478	2.375
As1890	189.042 {4	Y_2243	ppm	0.4991	0.0037	0.7403	0.5017	0.4965
B_2496	249.678 {1	Y_3710	ppm	0.475	0.0102	2.155	0.4822	0.4678
Ba4554	455.403 {	Y_3710	ppm	0.4786	0.0118	2.473	0.487	0.4703
Be3130	313.042 {1	Y_3710	ppm	0.4851	0.0142	2.936	0.4952	0.4751
Ca3158	315.887 {1	In2306	ppm	11.98	0.3659	3.054	12.24	11.72
Ca3181	318.128 {1	In2306	ppm	11.95	0.3907	3.27	12.23	11.67
Cd2288	228.802 {4	Y_2243	ppm	0.4917	0.0021	0.4225	0.4932	0.4902
Co2286	228.616 {4	In2306	ppm	0.4835	0.0025	0.514	0.4852	0.4817
Cr2677	267.716 {1	Y_3600	ppm	0.5158	0.0028	0.5449	0.5138	0.5178
Cu3247	324.754 {1	Y_3600	ppm	0.5108	0.0004	0.0846	0.5105	0.5111
Fe2404	240.488 {1	In2306	ppm	2.414	0.052	2.156	2.451	2.377
K_7664	766.490 {	Y_3710	ppm	12.16	0.2546	2.094	12.34	11.98
K_7698	769.896 {	Y_3710	ppm	12.16	0.3709	3.049	12.43	11.9
Li6707	670.784 {	Y_3710	ppm	0.4823	0.0114	2.361	0.4904	0.4742
Mg2790	279.079 {1	Y_3710	ppm	4.797	0.1506	3.139	4.903	4.69
Mn2576	257.610 {1	Y_3600	ppm	0.5108	0.0028	0.5497	0.5088	0.5128
Mn2576-2	257.610 {1	Y_3710	ppm	0.4802	0.0153	3.177	0.491	0.4695
Mo2020	202.030 {4	Y_2243	ppm	0.5076	0.0006	0.1196	0.508	0.5071
Na5895	589.592 {	Y_3710	ppm	12.15	0.3499	2.88	12.4	11.9
Na8183	818.326 {	Y_3710	ppm	12.4	0.3964	3.198	12.68	12.12
Ni2316	231.604 {4	In2306	ppm	0.4858	0.0029	0.6014	0.4878	0.4837
P_1782	178.284 {4	In2306	ppm	0.4875	0.0033	0.6702	0.4898	0.4852
Pb2203	220.353 {4	In2306	ppm	0.4838	0.0009	0.1827	0.4844	0.4832
S_1820	182.034 {4	Y_2243	ppm	-555.3	0.5839	0.1051	-554.9	-555.7
Sb2068	206.833 {4	Y_2243	ppm	0.4966	0.0002	0.044	0.4965	0.4968
Se1960	196.090 {4	Y_2243	ppm	0.4964	0.0006	0.1125	0.4968	0.496
Si2516	251.611 {1	Y_3710	ppm	0.9311	0.0097	1.043	0.938	0.9243
Sn1899	189.989 {4	In2306	ppm	0.4876	0.0031	0.6402	0.4899	0.4854
Sr4215	421.552 {	Y_3710	ppm	0.2425	0.0064	2.653	0.2471	0.238
Ti3349	334.904 {1	Y_3600	ppm	0.5173	0.0002	0.0377	0.5175	0.5172
Tl1908	190.856 {4	In2306	ppm	0.4442	0.0424	9.535	0.4742	0.4143
V_2924	292.402 {1	Y_3600	ppm	0.5213	0.0001	0.0215	0.5214	0.5212
Zn2062	206.200 {4	In2306	ppm	0.4782	0.003	0.6335	0.4803	0.476

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1020.7	21.473	2.1038	1005.5	1035.9
In2306	230.606 {4	Cts/S	14178	28.42	0.20045	14158	14198
Y_2243	224.306 {4	Cts/S	21358	21.799	0.10207	21342	21373
Y_3600	360.073 {	Cts/S	188530	594.48	0.31533	188950	188110
Y_3710	371.030 {	Cts/S	54160	1156.8	2.1358	53342	54978

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:29:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0051	0.0005	9.348	0.0055	0.0048
Al3082	308.215 {1	In2306	ppm	0.1085	0.0163	14.99	0.12	0.097
As1890	189.042 {4	Y_2243	ppm	0.0118	0.0028	23.9	0.0098	0.0138
B_2496	249.678 {1	Y_3710	ppm	0.0031	0.0029	93.01	0.0051	0.0011
Ba4554	455.403 {	Y_3710	ppm	0.01	0.0001	0.8929	0.0101	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0049	0.0001	3.023	0.005	0.0048
Ca3158	315.887 {1	In2306	ppm	0.1056	0.003	2.805	0.1077	0.1036
Ca3181	318.128 {1	In2306	ppm	0.1262	0.0227	18.01	0.1422	0.1101
Cd2288	228.802 {4	Y_2243	ppm	0.0064	0.0021	32.63	0.0049	0.0079
Co2286	228.616 {4	In2306	ppm	0.0111	0.0022	20.15	0.0095	0.0127
Cr2677	267.716 {1	Y_3600	ppm	0.01	0.0001	1.153	0.0099	0.0101
Cu3247	324.754 {1	Y_3600	ppm	0.009	0.0004	3.955	0.0092	0.0087
Fe2404	240.488 {1	In2306	ppm	0.098	0.0029	2.958	0.1001	0.096
K_7664	766.490 {	Y_3710	ppm	0.5935	0.0044	0.7366	0.5966	0.5904
K_7698	769.896 {	Y_3710	ppm	0.4466	0.0099	2.226	0.4395	0.4536
Li6707	670.784 {	Y_3710	ppm	0.0096	0.0003	3.15	0.0093	0.0098
Mg2790	279.079 {1	Y_3710	ppm	0.1024	0.0192	18.75	0.116	0.0889
Mn2576	257.610 {1	Y_3600	ppm	0.0099	0.0001	0.5997	0.0099	0.01
Mn2576-2	257.610 {1	Y_3710	ppm	0.0112	0	0.1745	0.0112	0.0112
Mo2020	202.030 {4	Y_2243	ppm	0.0139	0.0032	22.9	0.0116	0.0161
Na5895	589.592 {	Y_3710	ppm	0.6224	0.015	2.416	0.6331	0.6118
Na8183	818.326 {	Y_3710	ppm	0.5761	0.1768	30.69	0.4511	0.7011
Ni2316	231.604 {4	In2306	ppm	0.0114	0.0025	21.69	0.0096	0.0131
P_1782	178.284 {4	In2306	ppm	0.0088	0.0024	27	0.0071	0.0105
Pb2203	220.353 {4	In2306	ppm	0.0105	0.0027	26.12	0.0085	0.0124
S_1820	182.034 {4	Y_2243	ppm	-2.966	1.433	48.32	-1.953	-3.98
Sb2068	206.833 {4	Y_2243	ppm	0.0154	0.0026	16.8	0.0136	0.0173
Se1960	196.090 {4	Y_2243	ppm	0.0098	0.0025	26.03	0.008	0.0116
Si2516	251.611 {1	Y_3710	ppm	0.0077	0.0016	20.44	0.0066	0.0089
Sn1899	189.989 {4	In2306	ppm	0.0122	0.0023	18.85	0.0106	0.0138
Sr4215	421.552 {	Y_3710	ppm	0.005	0	0.3236	0.005	0.005
Ti3349	334.904 {1	Y_3600	ppm	0.0099	0.0001	1.161	0.0098	0.01
Tl1908	190.856 {4	In2306	ppm	0.0707	0.0239	33.79	0.0538	0.0876
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0002	2.362	0.0098	0.0101
Zn2062	206.200 {4	In2306	ppm	0.011	0.002	18.44	0.0095	0.0124

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1029.9	13.177	1.2794	1020.6	1039.2
In2306	230.606 {4	Cts/S	15064	169.55	1.1255	15183	14944
Y_2243	224.306 {4	Cts/S	21818	244.12	1.1189	21991	21645
Y_3600	360.073 {	Cts/S	203030	1168	0.57529	203850	202200
Y_3710	371.030 {	Cts/S	53849	826.67	1.5352	53264	54433

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:31:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0008	0.0004	42.31	0.0011	0.0006
Al3082	308.215 {1	In2306	ppm	0.0068	0.0061	89.67	0.0111	0.0025
As1890	189.042 {4	Y_2243	ppm	0.0012	0.0004	35.75	0.0009	0.0015
B_2496	249.678 {1	Y_3710	ppm	-0.0094	0.0006	6	-0.0098	-0.009
Ba4554	455.403 {	Y_3710	ppm	0	0.0001	1216	0	0
Be3130	313.042 {1	Y_3710	ppm	0	0	14.69	0	0
Ca3158	315.887 {1	In2306	ppm	0.0067	0.0056	82.73	0.0028	0.0107
Ca3181	318.128 {1	In2306	ppm	0.0086	0.006	69.64	0.0044	0.0129
Cd2288	228.802 {4	Y_2243	ppm	0	0	40.05	0	0
Co2286	228.616 {4	In2306	ppm	-0.0001	0.0002	206.7	-0.0002	0
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	40.73	0.0001	0.0002
Cu3247	324.754 {1	Y_3600	ppm	-0.001	0.0005	44.25	-0.0013	-0.0007
Fe2404	240.488 {1	In2306	ppm	-0.0015	0.001	65.92	-0.0008	-0.0021
K_7664	766.490 {	Y_3710	ppm	0.0003	0.013	3967	-0.0089	0.0095
K_7698	769.896 {	Y_3710	ppm	-0.1469	0.0024	1.64	-0.1486	-0.1452
Li6707	670.784 {	Y_3710	ppm	-0.0016	0.0003	15.6	-0.0018	-0.0014
Mg2790	279.079 {1	Y_3710	ppm	-0.008	0.0069	86.26	-0.0031	-0.013
Mn2576	257.610 {1	Y_3600	ppm	0	0	128.7	0	0
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0002	0.0004	252.8	0.0001	-0.0005
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0.0003	67.24	0.0002	0.0006
Na5895	589.592 {	Y_3710	ppm	0.0025	0.0022	89.26	0.0009	0.004
Na8183	818.326 {	Y_3710	ppm	-0.1377	0.0752	54.64	-0.0845	-0.1909
Ni2316	231.604 {4	In2306	ppm	0.0002	0.0001	26.19	0.0002	0.0003
P_1782	178.284 {4	In2306	ppm	-0.0014	0.001	76.59	-0.0021	-0.0006
Pb2203	220.353 {4	In2306	ppm	0.0006	0.0005	98.82	0.0009	0.0002
S_1820	182.034 {4	Y_2243	ppm	-0.8898	0.2134	23.98	-0.739	-1.041
Sb2068	206.833 {4	Y_2243	ppm	0.0016	0.0005	30.34	0.0013	0.002
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0.0008	127.4	-0.0011	-0.0001
Si2516	251.611 {1	Y_3710	ppm	0.0028	0.0026	92.09	0.001	0.0046
Sn1899	189.989 {4	In2306	ppm	0.0003	0	13.77	0.0003	0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0.0001	292.2	0	-0.0001
Ti3349	334.904 {1	Y_3600	ppm	0	0.0002	401.6	0.0002	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0047	0.0113	237.6	-0.0032	0.0127
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	37.8	-0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	0	0.0001	9325	0	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1035.8	17.648	1.7038	1023.3	1048.2
In2306	230.606 {4	Cts/S	14949	200.29	1.3398	14808	15091
Y_2243	224.306 {4	Cts/S	21585	284.69	1.3189	21384	21787
Y_3600	360.073 {	Cts/S	202890	7523.4	3.7081	197570	208210
Y_3710	371.030 {	Cts/S	54376	616.91	1.1345	53940	54812

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=mb 600-87876/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:34:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0005	84.64	0.0009	0.0002
Al3082	308.215 {1	In2306	ppm	0.0083	0.0024	28.86	0.0066	0.01
As1890	189.042 {4	Y_2243	ppm	0.0011	0.0001	6.58	0.0011	0.0012
B_2496	249.678 {1	Y_3710	ppm	-0.0084	0.0023	27.11	-0.0068	-0.01
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	124.6	-0.0002	0
Be3130	313.042 {1	Y_3710	ppm	0	0	78.07	0	0
Ca3158	315.887 {1	In2306	ppm	0.0024	0.0025	106.2	0.0042	0.0006
Ca3181	318.128 {1	In2306	ppm	0.0148	0.0063	42.73	0.0193	0.0103
Cd2288	228.802 {4	Y_2243	ppm	0	0	180.8	0	0
Co2286	228.616 {4	In2306	ppm	0	0	44	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0	2.551	0.0003	0.0003
Cu3247	324.754 {1	Y_3600	ppm	-0.0014	0.0005	32.57	-0.0011	-0.0018
Fe2404	240.488 {1	In2306	ppm	0.013	0.0005	4.162	0.0126	0.0133
K_7664	766.490 {	Y_3710	ppm	-0.0001	0.0012	1584	0.0008	-0.0009
K_7698	769.896 {	Y_3710	ppm	-0.113	0.0091	8.012	-0.1066	-0.1194
Li6707	670.784 {	Y_3710	ppm	-0.0016	0.0001	4.905	-0.0015	-0.0016
Mg2790	279.079 {1	Y_3710	ppm	0.0107	0.0055	51.6	0.0146	0.0068
Mn2576	257.610 {1	Y_3600	ppm	0	0	20.49	0	0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0002	0.0003	170.4	-0.0004	0
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0	28.21	0.0001	0.0002
Na5895	589.592 {	Y_3710	ppm	-0.0041	0.0083	202.9	0.0018	-0.01
Na8183	818.326 {	Y_3710	ppm	-0.1993	0.0388	19.49	-0.2268	-0.1719
Ni2316	231.604 {4	In2306	ppm	0.0001	0	34.07	0.0001	0.0001
P_1782	178.284 {4	In2306	ppm	-0.0023	0.0002	6.844	-0.0024	-0.0022
Pb2203	220.353 {4	In2306	ppm	-0.0002	0.0003	173.3	-0.0004	0
S_1820	182.034 {4	Y_2243	ppm	-2.089	0.1887	9.033	-1.956	-2.223
Sb2068	206.833 {4	Y_2243	ppm	0.0004	0.0006	156.8	0	0.0008
Se1960	196.090 {4	Y_2243	ppm	-0.001	0.0006	63.68	-0.0014	-0.0005
Si2516	251.611 {1	Y_3710	ppm	0.0033	0.0048	147.9	-0.0002	0.0067
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0001	173.1	0.0001	0
Sr4215	421.552 {	Y_3710	ppm	0	0	230.2	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0003	0.0003	130	0	-0.0005
Tl1908	190.856 {4	In2306	ppm	-0.0227	0.0062	27.48	-0.0271	-0.0182
V_2924	292.402 {1	Y_3600	ppm	0.0003	0	9.398	0.0003	0.0003
Zn2062	206.200 {4	In2306	ppm	0.0045	0.0001	1.646	0.0045	0.0044

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1038.2	9.0729	0.8739	1044.6	1031.8
In2306	230.606 {4	Cts/S	14963	72.99	0.4878	14911	15015
Y_2243	224.306 {4	Cts/S	21544	206.27	0.95744	21399	21690
Y_3600	360.073 {	Cts/S	198710	1770	0.89076	199960	197450
Y_3710	371.030 {	Cts/S	54582	548.84	1.0055	54970	54194

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=lcs 600-87876/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:36:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.4959	0.0237	4.777	0.4791	0.5126
Al3082	308.215 {1	In2306	ppm	10.2	0.0032	0.0311	10.2	10.2
As1890	189.042 {4	Y_2243	ppm	1.073	0.0204	1.899	1.087	1.058
B_2496	249.678 {1	Y_3710	ppm	0.9974	0.0047	0.4692	0.9941	1.001
Ba4554	455.403 {	Y_3710	ppm	1.026	0.0022	0.2103	1.028	1.025
Be3130	313.042 {1	Y_3710	ppm	0.5152	0.0005	0.1022	0.5155	0.5148
Ca3158	315.887 {1	In2306	ppm	10.19	0.0085	0.0839	10.19	10.18
Ca3181	318.128 {1	In2306	ppm	10.11	0.0113	0.1117	10.12	10.1
Cd2288	228.802 {4	Y_2243	ppm	0.531	0.0121	2.283	0.5396	0.5224
Co2286	228.616 {4	In2306	ppm	1.053	0.024	2.276	1.07	1.036
Cr2677	267.716 {1	Y_3600	ppm	0.9838	0.0533	5.415	0.9461	1.021
Cu3247	324.754 {1	Y_3600	ppm	0.9969	0.051	5.12	0.9608	1.033
Fe2404	240.488 {1	In2306	ppm	10.19	0.0046	0.045	10.2	10.19
K_7664	766.490 {	Y_3710	ppm	10.33	0.0213	0.2059	10.32	10.35
K_7698	769.896 {	Y_3710	ppm	10.26	0.0341	0.3322	10.29	10.24
Li6707	670.784 {	Y_3710	ppm	0.5193	0.0018	0.3557	0.518	0.5206
Mg2790	279.079 {1	Y_3710	ppm	10.13	0.0553	0.5459	10.17	10.09
Mn2576	257.610 {1	Y_3600	ppm	0.9783	0.0522	5.333	0.9414	1.015
Mn2576-2	257.610 {1	Y_3710	ppm	1.011	0.0037	0.3708	1.013	1.008
Mo2020	202.030 {4	Y_2243	ppm	1.084	0.0257	2.369	1.102	1.066
Na5895	589.592 {	Y_3710	ppm	10.34	0.0107	0.1039	10.35	10.33
Na8183	818.326 {	Y_3710	ppm	10.53	0.1211	1.15	10.44	10.61
Ni2316	231.604 {4	In2306	ppm	1.05	0.0229	2.186	1.066	1.034
P_1782	178.284 {4	In2306	ppm	-0.0012	0.0002	16.91	-0.0013	-0.001
Pb2203	220.353 {4	In2306	ppm	1.047	0.0236	2.259	1.063	1.03
S_1820	182.034 {4	Y_2243	ppm	-1.753	1.137	64.83	-0.9496	-2.557
Sb2068	206.833 {4	Y_2243	ppm	1.06	0.0279	2.628	1.08	1.04
Se1960	196.090 {4	Y_2243	ppm	1.07	0.0215	2.009	1.085	1.055
Si2516	251.611 {1	Y_3710	ppm	0.9717	0.0033	0.3412	0.974	0.9694
Sn1899	189.989 {4	In2306	ppm	1.047	0.0235	2.239	1.064	1.031
Sr4215	421.552 {	Y_3710	ppm	0.5175	0.001	0.1886	0.5182	0.5168
Ti3349	334.904 {1	Y_3600	ppm	0.9887	0.0515	5.208	0.9523	1.025
Tl1908	190.856 {4	In2306	ppm	1.028	0.1295	12.6	1.119	0.9363
V_2924	292.402 {1	Y_3600	ppm	0.9955	0.0543	5.458	0.957	1.034
Zn2062	206.200 {4	In2306	ppm	1.034	0.0227	2.192	1.05	1.017

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1015.2	2.7759	0.27343	1013.2	1017.2
In2306	230.606 {4	Cts/S	13654	253.49	1.8565	13475	13833
Y_2243	224.306 {4	Cts/S	20824	368.7	1.7706	20563	21084
Y_3600	360.073 {	Cts/S	200910	8248.1	4.1055	206740	195070
Y_3710	371.030 {	Cts/S	54296	329.81	0.60744	54062	54529

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60800-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:38:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0002	35.01	0.0007	0.0004
Al3082	308.215 {1	In2306	ppm	2.657	0.0427	1.606	2.626	2.687
As1890	189.042 {4	Y_2243	ppm	0.0099	0.0011	11.4	0.0091	0.0107
B_2496	249.678 {1	Y_3710	ppm	0.1055	0.0016	1.56	0.1066	0.1043
Ba4554	455.403 {	Y_3710	ppm	0.0856	0.0003	0.4087	0.0859	0.0854
Be3130	313.042 {1	Y_3710	ppm	0.0002	0.0001	31.61	0.0002	0.0002
Ca3158	315.887 {1	In2306	ppm	52.15	0.0353	0.0677	52.12	52.17
Ca3181	318.128 {1	In2306	ppm	51.73	0.146	0.2822	51.63	51.83
Cd2288	228.802 {4	Y_2243	ppm	0.0007	0.0007	92.3	0.0003	0.0012
Co2286	228.616 {4	In2306	ppm	0.0022	0.0016	72.05	0.0011	0.0034
Cr2677	267.716 {1	Y_3600	ppm	0.0091	0	0.1821	0.0091	0.0091
Cu3247	324.754 {1	Y_3600	ppm	0.0079	0.0001	1.035	0.0078	0.0079
Fe2404	240.488 {1	In2306	ppm	1.956	0.0002	0.0114	1.956	1.956
K_7664	766.490 {	Y_3710	ppm	5.008	0.0074	0.1473	5.002	5.013
K_7698	769.896 {	Y_3710	ppm	4.988	0.037	0.7408	4.962	5.014
Li6707	670.784 {	Y_3710	ppm	0.0079	0.0004	4.811	0.0081	0.0076
Mg2790	279.079 {1	Y_3710	ppm	6.072	0.0414	0.6825	6.043	6.101
Mn2576	257.610 {1	Y_3600	ppm	0.0941	0.0016	1.665	0.093	0.0952
Mn2576-2	257.610 {1	Y_3710	ppm	0.0916	0.0002	0.2044	0.0917	0.0915
Mo2020	202.030 {4	Y_2243	ppm	0.0157	0.003	19.25	0.0135	0.0178
Na5895	589.592 {	Y_3710	ppm	50.84	0.0882	0.1735	50.78	50.9
Na8183	818.326 {	Y_3710	ppm	52.44	0.0074	0.0141	52.45	52.44
Ni2316	231.604 {4	In2306	ppm	0.0062	0.0017	27.3	0.005	0.0073
P_1782	178.284 {4	In2306	ppm	0.1977	0.0005	0.2438	0.1974	0.198
Pb2203	220.353 {4	In2306	ppm	0.0074	0.0015	20.21	0.0064	0.0085
S_1820	182.034 {4	Y_2243	ppm	-11050	122.1	1.105	-10970	-11140
Sb2068	206.833 {4	Y_2243	ppm	0.0094	0.0034	36.39	0.007	0.0119
Se1960	196.090 {4	Y_2243	ppm	0.0019	0.0006	33.43	0.0014	0.0023
Si2516	251.611 {1	Y_3710	ppm	8.881	0.0497	0.5596	8.846	8.916
Sn1899	189.989 {4	In2306	ppm	0.003	0.0021	72.12	0.0015	0.0045
Sr4215	421.552 {	Y_3710	ppm	0.2527	0.0002	0.0612	0.2526	0.2528
Ti3349	334.904 {1	Y_3600	ppm	0.0175	0.0006	3.503	0.0171	0.0179
Tl1908	190.856 {4	In2306	ppm	0.1266	0.0444	35.11	0.0951	0.158
V_2924	292.402 {1	Y_3600	ppm	0.0111	0.0002	1.374	0.011	0.0112
Zn2062	206.200 {4	In2306	ppm	0.1606	0.0035	2.149	0.1582	0.163

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1003.7	5.6854	0.56645	999.68	1007.7
In2306	230.606 {4	Cts/S	13349	169.46	1.2694	13469	13230
Y_2243	224.306 {4	Cts/S	20572	259.16	1.2597	20755	20389
Y_3600	360.073 {	Cts/S	186870	2112.1	1.1303	188360	185380
Y_3710	371.030 {	Cts/S	53646	162.35	0.30264	53532	53761

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60800-b-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:41:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0004	135.6	0	0.0005
Al3082	308.215 {1	In2306	ppm	1.506	0.0079	0.5232	1.511	1.5
As1890	189.042 {4	Y_2243	ppm	0.009	0.0009	9.41	0.0096	0.0084
B_2496	249.678 {1	Y_3710	ppm	0.1174	0.0018	1.521	0.1187	0.1161
Ba4554	455.403 {	Y_3710	ppm	0.1002	0.0003	0.3087	0.1004	0.1
Be3130	313.042 {1	Y_3710	ppm	0.0001	0.0001	46.35	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	58.14	0.4221	0.726	58.43	57.84
Ca3181	318.128 {1	In2306	ppm	57.6	0.1602	0.2781	57.71	57.49
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	14.21	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0.0009	0.0001	10.44	0.0008	0.001
Cr2677	267.716 {1	Y_3600	ppm	0.0087	0.0005	5.922	0.0091	0.0083
Cu3247	324.754 {1	Y_3600	ppm	0.0065	0.0002	2.367	0.0066	0.0064
Fe2404	240.488 {1	In2306	ppm	1.368	0.006	0.4421	1.372	1.364
K_7664	766.490 {	Y_3710	ppm	5.611	0.0328	0.5843	5.634	5.588
K_7698	769.896 {	Y_3710	ppm	5.567	0.0034	0.0607	5.564	5.569
Li6707	670.784 {	Y_3710	ppm	0.0087	0.0002	2.036	0.0086	0.0089
Mg2790	279.079 {1	Y_3710	ppm	6.894	0.0029	0.0422	6.892	6.896
Mn2576	257.610 {1	Y_3600	ppm	0.1043	0.0045	4.316	0.1074	0.1011
Mn2576-2	257.610 {1	Y_3710	ppm	0.1036	0.0012	1.112	0.1044	0.1028
Mo2020	202.030 {4	Y_2243	ppm	0.0133	0.0001	0.422	0.0132	0.0133
Na5895	589.592 {	Y_3710	ppm	65.86	0.0507	0.077	65.82	65.9
Na8183	818.326 {	Y_3710	ppm	67.68	0.1924	0.2843	67.81	67.54
Ni2316	231.604 {4	In2306	ppm	0.0076	0.0001	0.8009	0.0075	0.0076
P_1782	178.284 {4	In2306	ppm	0.2399	0.0035	1.462	0.2424	0.2375
Pb2203	220.353 {4	In2306	ppm	0.0076	0.001	13.5	0.0083	0.0068
S_1820	182.034 {4	Y_2243	ppm	-14400	160.3	1.113	-14520	-14290
Sb2068	206.833 {4	Y_2243	ppm	0.0033	0.0004	10.73	0.0035	0.003
Se1960	196.090 {4	Y_2243	ppm	0.0033	0.0002	6.336	0.0031	0.0034
Si2516	251.611 {1	Y_3710	ppm	7.469	0.0086	0.1152	7.463	7.475
Sn1899	189.989 {4	In2306	ppm	0.0007	0.0004	55.7	0.0004	0.0009
Sr4215	421.552 {	Y_3710	ppm	0.2925	0	0.0106	0.2924	0.2925
Ti3349	334.904 {1	Y_3600	ppm	0.01	0.0001	0.7919	0.01	0.0099
Tl1908	190.856 {4	In2306	ppm	0.0231	0.0171	74.19	0.011	0.0352
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0001	1.184	0.0099	0.01
Zn2062	206.200 {4	In2306	ppm	0.1392	0.0014	1.028	0.1402	0.1381

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	999.14	3.8311	0.38344	996.43	1001.8
In2306	230.606 {4	Cts/S	13009	120.57	0.92682	12924	13095
Y_2243	224.306 {4	Cts/S	20044	178.08	0.88843	19918	20170
Y_3600	360.073 {	Cts/S	189960	4943.4	2.6023	186460	193460
Y_3710	371.030 {	Cts/S	53427	69.421	0.12994	53476	53378

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60805-b-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:43:27
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0	8.342	0.0005	0.0006
Al3082	308.215 {1	In2306	ppm	5.687	0.0374	0.6568	5.661	5.714
As1890	189.042 {4	Y_2243	ppm	0.0052	0.0005	9.044	0.0056	0.0049
B_2496	249.678 {1	Y_3710	ppm	0.0965	0.0003	0.2646	0.0967	0.0963
Ba4554	455.403 {	Y_3710	ppm	0.097	0.0001	0.0934	0.097	0.0969
Be3130	313.042 {1	Y_3710	ppm	0.0003	0	12.89	0.0003	0.0003
Ca3158	315.887 {1	In2306	ppm	86.7	0.5411	0.6241	86.31	87.08
Ca3181	318.128 {1	In2306	ppm	85.26	0.5169	0.6063	84.89	85.62
Cd2288	228.802 {4	Y_2243	ppm	0.0006	0	2.558	0.0006	0.0006
Co2286	228.616 {4	In2306	ppm	0.0017	0	0.2432	0.0017	0.0017
Cr2677	267.716 {1	Y_3600	ppm	0.0181	0.0004	2.172	0.0178	0.0184
Cu3247	324.754 {1	Y_3600	ppm	0.0323	0.0019	5.749	0.031	0.0336
Fe2404	240.488 {1	In2306	ppm	4.676	0.011	0.2344	4.668	4.684
K_7664	766.490 {	Y_3710	ppm	2.758	0.0244	0.885	2.776	2.741
K_7698	769.896 {	Y_3710	ppm	2.688	0.0473	1.758	2.721	2.654
Li6707	670.784 {	Y_3710	ppm	0.0088	0.0004	4.683	0.0091	0.0085
Mg2790	279.079 {1	Y_3710	ppm	5.015	0.0176	0.3511	5.027	5.002
Mn2576	257.610 {1	Y_3600	ppm	0.1638	0.0085	5.18	0.1578	0.1698
Mn2576-2	257.610 {1	Y_3710	ppm	0.1635	0.0009	0.5641	0.1629	0.1642
Mo2020	202.030 {4	Y_2243	ppm	0.0153	0.0006	3.824	0.0149	0.0157
Na5895	589.592 {	Y_3710	ppm	33.42	0.1048	0.3134	33.35	33.5
Na8183	818.326 {	Y_3710	ppm	34.48	0.1727	0.5008	34.36	34.6
Ni2316	231.604 {4	In2306	ppm	0.0079	0.0004	4.532	0.0077	0.0082
P_1782	178.284 {4	In2306	ppm	0.2218	0.0063	2.85	0.2173	0.2262
Pb2203	220.353 {4	In2306	ppm	0.0331	0.0006	1.812	0.0327	0.0336
S_1820	182.034 {4	Y_2243	ppm	-9204	137.3	1.492	-9107	-9301
Sb2068	206.833 {4	Y_2243	ppm	-0.0014	0.0002	13.95	-0.0015	-0.0012
Se1960	196.090 {4	Y_2243	ppm	0.0023	0.0008	34.83	0.0017	0.0029
Si2516	251.611 {1	Y_3710	ppm	14.39	0.0057	0.0395	14.4	14.39
Sn1899	189.989 {4	In2306	ppm	0.0008	0.0002	24.55	0.0006	0.0009
Sr4215	421.552 {	Y_3710	ppm	0.2143	0.0003	0.1597	0.214	0.2145
Ti3349	334.904 {1	Y_3600	ppm	0.0689	0.0038	5.477	0.0662	0.0716
Tl1908	190.856 {4	In2306	ppm	-0.0151	0.0082	54.49	-0.0209	-0.0093
V_2924	292.402 {1	Y_3600	ppm	0.018	0.0009	4.849	0.0174	0.0186
Zn2062	206.200 {4	In2306	ppm	0.384	0.0078	2.034	0.3785	0.3896

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1006.5	0.49492	0.04917	1006.9	1006.2
In2306	230.606 {4	Cts/S	13413	166.18	1.2389	13531	13296
Y_2243	224.306 {4	Cts/S	20971	227.39	1.0843	21132	20810
Y_3600	360.073 {	Cts/S	192420	8192	4.2574	198210	186620
Y_3710	371.030 {	Cts/S	54424	98.145	0.18034	54354	54493

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60805-b-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:45:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0014	845	-0.0011	0.0008
Al3082	308.215 {1	In2306	ppm	5.168	0.0477	0.9225	5.134	5.202
As1890	189.042 {4	Y_2243	ppm	0.007	0.001	14.65	0.0077	0.0063
B_2496	249.678 {1	Y_3710	ppm	0.1326	0.0004	0.31	0.1329	0.1323
Ba4554	455.403 {	Y_3710	ppm	0.1091	0.0001	0.1275	0.109	0.1092
Be3130	313.042 {1	Y_3710	ppm	0.0003	0	1.99	0.0003	0.0003
Ca3158	315.887 {1	In2306	ppm	91.09	1.294	1.42	90.18	92.01
Ca3181	318.128 {1	In2306	ppm	90.32	1.06	1.173	89.57	91.07
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0	4.601	0.0004	0.0004
Co2286	228.616 {4	In2306	ppm	0.0017	0.0001	3.858	0.0016	0.0017
Cr2677	267.716 {1	Y_3600	ppm	0.0203	0.0001	0.5945	0.0203	0.0202
Cu3247	324.754 {1	Y_3600	ppm	0.0276	0.0001	0.1828	0.0275	0.0276
Fe2404	240.488 {1	In2306	ppm	4.301	0.0407	0.9454	4.273	4.33
K_7664	766.490 {	Y_3710	ppm	3.429	0.0177	0.5156	3.417	3.442
K_7698	769.896 {	Y_3710	ppm	3.384	0.0108	0.3199	3.376	3.391
Li6707	670.784 {	Y_3710	ppm	0.0102	0	0.1845	0.0101	0.0102
Mg2790	279.079 {1	Y_3710	ppm	7.539	0.0395	0.5243	7.511	7.567
Mn2576	257.610 {1	Y_3600	ppm	0.2253	0.0002	0.0798	0.2254	0.2252
Mn2576-2	257.610 {1	Y_3710	ppm	0.2206	0.0022	0.9888	0.219	0.2221
Mo2020	202.030 {4	Y_2243	ppm	0.0367	0.0002	0.4726	0.0368	0.0366
Na5895	589.592 {	Y_3710	ppm	33.34	0.0973	0.2918	33.27	33.41
Na8183	818.326 {	Y_3710	ppm	34.51	0.3447	0.9989	34.27	34.75
Ni2316	231.604 {4	In2306	ppm	0.0074	0.0004	4.769	0.0077	0.0072
P_1782	178.284 {4	In2306	ppm	0.2497	0	0.0088	0.2497	0.2497
Pb2203	220.353 {4	In2306	ppm	0.0232	0.0005	2.177	0.0229	0.0236
S_1820	182.034 {4	Y_2243	ppm	-12420	15.31	0.1232	-12410	-12430
Sb2068	206.833 {4	Y_2243	ppm	0.0028	0.0006	20.54	0.0032	0.0024
Se1960	196.090 {4	Y_2243	ppm	0.0023	0.0025	110.4	0.0005	0.0041
Si2516	251.611 {1	Y_3710	ppm	14.77	0.0216	0.1464	14.76	14.79
Sn1899	189.989 {4	In2306	ppm	0.0007	0.0001	18.16	0.0006	0.0008
Sr4215	421.552 {	Y_3710	ppm	0.2913	0.0008	0.2589	0.2908	0.2919
Ti3349	334.904 {1	Y_3600	ppm	0.0626	0	0.0281	0.0626	0.0626
Tl1908	190.856 {4	In2306	ppm	-0.0327	0.0064	19.73	-0.0372	-0.0281
V_2924	292.402 {1	Y_3600	ppm	0.0162	0.0002	0.9311	0.0164	0.0161
Zn2062	206.200 {4	In2306	ppm	0.4076	0.0004	0.0964	0.4078	0.4073

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	998.79	14.836	1.4854	1009.3	988.3
In2306	230.606 {4	Cts/S	13316	0.86824	0.00652	13315	13316
Y_2243	224.306 {4	Cts/S	20827	15.537	0.0746	20838	20816
Y_3600	360.073 {	Cts/S	188720	230.42	0.1221	188880	188550
Y_3710	371.030 {	Cts/S	54000	255.72	0.47356	54181	53819

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60809-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:48:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0009	0.0009	96.33	0.0016	0.0003
Al3082	308.215 {1	In2306	ppm	0.1034	0.0108	10.44	0.0958	0.1111
As1890	189.042 {4	Y_2243	ppm	0.0118	0.0002	1.648	0.0119	0.0117
B_2496	249.678 {1	Y_3710	ppm	0.2751	0.0102	3.692	0.2822	0.2679
Ba4554	455.403 {	Y_3710	ppm	0.1881	0.0074	3.957	0.1933	0.1828
Be3130	313.042 {1	Y_3710	ppm	0	0	38.58	0	0
Ca3158	315.887 {1	In2306	ppm	153.5	5.832	3.799	157.6	149.4
Ca3181	318.128 {1	In2306	ppm	152	5.512	3.626	155.9	148.1
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	35.95	0.0002	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	616.7	0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.004	0.0001	1.882	0.0041	0.004
Cu3247	324.754 {1	Y_3600	ppm	0.0168	0.0003	1.702	0.0166	0.017
Fe2404	240.488 {1	In2306	ppm	0.1976	0.0085	4.317	0.2037	0.1916
K_7664	766.490 {	Y_3710	ppm	23.45	0.929	3.961	24.11	22.8
K_7698	769.896 {	Y_3710	ppm	23.71	0.9511	4.011	24.38	23.04
Li6707	670.784 {	Y_3710	ppm	0.0295	0.0011	3.691	0.0303	0.0287
Mg2790	279.079 {1	Y_3710	ppm	15.81	0.5074	3.209	16.17	15.45
Mn2576	257.610 {1	Y_3600	ppm	0.0507	0.0008	1.516	0.0512	0.0501
Mn2576-2	257.610 {1	Y_3710	ppm	0.0518	0.0027	5.216	0.0537	0.0498
Mo2020	202.030 {4	Y_2243	ppm	0.0816	0.0029	3.582	0.0837	0.0796
Na5895	589.592 {	Y_3710	ppm	720.7	8.845	1.227	726.9	714.4
Na8183	818.326 {	Y_3710	ppm	798.3	29.27	3.667	819	777.6
Ni2316	231.604 {4	In2306	ppm	0.0097	0.0001	0.8589	0.0098	0.0097
P_1782	178.284 {4	In2306	ppm	0.499	0.0153	3.074	0.5099	0.4882
Pb2203	220.353 {4	In2306	ppm	-0.0006	0.0006	92.46	-0.0002	-0.0011
S_1820	182.034 {4	Y_2243	ppm	-204700	6022	2.942	-209000	-200500
Sb2068	206.833 {4	Y_2243	ppm	-0.0001	0.0007	1233	-0.0005	0.0004
Se1960	196.090 {4	Y_2243	ppm	0.0012	0.0006	49.97	0.0008	0.0017
Si2516	251.611 {1	Y_3710	ppm	15.09	0.7414	4.912	15.62	14.57
Sn1899	189.989 {4	In2306	ppm	-0.0003	0.0003	98.92	-0.0005	-0.0001
Sr4215	421.552 {	Y_3710	ppm	1.14	0.0465	4.077	1.173	1.107
Ti3349	334.904 {1	Y_3600	ppm	0.0018	0.0003	17.53	0.002	0.0015
Tl1908	190.856 {4	In2306	ppm	-0.043	0	0.0656	-0.0429	-0.043
V_2924	292.402 {1	Y_3600	ppm	0.0068	0.0004	6.397	0.0071	0.0065
Zn2062	206.200 {4	In2306	ppm	0.0321	0.0003	0.9574	0.0319	0.0323

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	925.73	24.205	2.6147	908.62	942.85
In2306	230.606 {4	Cts/S	11142	222.03	1.9928	10985	11299
Y_2243	224.306 {4	Cts/S	19155	423.54	2.2111	18855	19454
Y_3600	360.073 {	Cts/S	172190	2012.6	1.1688	170760	173610
Y_3710	371.030 {	Cts/S	50524	1284.3	2.5419	49616	51432

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60809-c-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:50:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0009	402.8	-0.0004	0.0009
Al3082	308.215 {1	In2306	ppm	0.1247	0.0029	2.326	0.1268	0.1227
As1890	189.042 {4	Y_2243	ppm	0.0124	0.0005	3.918	0.0127	0.0121
B_2496	249.678 {1	Y_3710	ppm	0.2665	0.0033	1.231	0.2688	0.2642
Ba4554	455.403 {	Y_3710	ppm	0.1901	0.0007	0.3548	0.1906	0.1896
Be3130	313.042 {1	Y_3710	ppm	0	0	73.2	0	0
Ca3158	315.887 {1	In2306	ppm	149.8	0.6469	0.4318	150.3	149.4
Ca3181	318.128 {1	In2306	ppm	148.5	0.8496	0.5722	149.1	147.9
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0001	32.85	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0	0.0001	144.7	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0.0039	0.0004	9.546	0.0041	0.0036
Cu3247	324.754 {1	Y_3600	ppm	0.017	0.0004	2.259	0.0167	0.0172
Fe2404	240.488 {1	In2306	ppm	0.2001	0.0025	1.27	0.2019	0.1983
K_7664	766.490 {	Y_3710	ppm	22.83	0.1582	0.6933	22.94	22.71
K_7698	769.896 {	Y_3710	ppm	22.99	0.0437	0.1902	23.03	22.96
Li6707	670.784 {	Y_3710	ppm	0.0285	0.0006	2.138	0.0289	0.0281
Mg2790	279.079 {1	Y_3710	ppm	15.31	0.0456	0.2978	15.28	15.35
Mn2576	257.610 {1	Y_3600	ppm	0.052	0.0003	0.5701	0.0518	0.0522
Mn2576-2	257.610 {1	Y_3710	ppm	0.0501	0.0012	2.342	0.0509	0.0492
Mo2020	202.030 {4	Y_2243	ppm	0.0834	0.0001	0.1451	0.0833	0.0835
Na5895	589.592 {	Y_3710	ppm	697.5	1.719	0.2464	696.3	698.7
Na8183	818.326 {	Y_3710	ppm	774.5	1.889	0.2439	775.9	773.2
Ni2316	231.604 {4	In2306	ppm	0.0099	0.0001	0.5716	0.01	0.0099
P_1782	178.284 {4	In2306	ppm	0.5095	0.001	0.1874	0.5102	0.5088
Pb2203	220.353 {4	In2306	ppm	-0.0004	0.0004	88.53	-0.0001	-0.0007
S_1820	182.034 {4	Y_2243	ppm	-207400	270.8	0.1305	-207200	-207600
Sb2068	206.833 {4	Y_2243	ppm	0.0002	0.0005	192.8	-0.0001	0.0006
Se1960	196.090 {4	Y_2243	ppm	0.0013	0.0023	184.1	0.0029	-0.0004
Si2516	251.611 {1	Y_3710	ppm	14.56	0.0712	0.4891	14.61	14.51
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0001	53.93	-0.0001	-0.0002
Sr4215	421.552 {	Y_3710	ppm	1.107	0.0012	0.1083	1.108	1.106
Ti3349	334.904 {1	Y_3600	ppm	0.0022	0.0001	2.717	0.0021	0.0022
Tl1908	190.856 {4	In2306	ppm	-0.0436	0.0003	0.7433	-0.0438	-0.0434
V_2924	292.402 {1	Y_3600	ppm	0.0068	0.0001	1.231	0.0068	0.0069
Zn2062	206.200 {4	In2306	ppm	0.0493	0.0002	0.4013	0.0491	0.0494

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	948.2	4.4773	0.47219	945.03	951.36
In2306	230.606 {4	Cts/S	11032	41.122	0.37275	11061	11003
Y_2243	224.306 {4	Cts/S	18990	60.832	0.32034	19033	18947
Y_3600	360.073 {	Cts/S	168250	458.32	0.27241	167920	168570
Y_3710	371.030 {	Cts/S	51802	175.01	0.33783	51679	51926

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60809-c-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:52:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5578	0.0044	0.7866	0.5547	0.5609
Al3082	308.215 {1	In2306	ppm	10.86	0.3303	3.042	10.63	11.09
As1890	189.042 {4	Y_2243	ppm	1.121	0.0074	0.6559	1.116	1.126
B_2496	249.678 {1	Y_3710	ppm	1.304	0.0369	2.831	1.278	1.33
Ba4554	455.403 {	Y_3710	ppm	1.223	0.0381	3.114	1.196	1.25
Be3130	313.042 {1	Y_3710	ppm	0.5218	0.0156	2.981	0.5108	0.5328
Ca3158	315.887 {1	In2306	ppm	160.8	4.466	2.777	157.7	164
Ca3181	318.128 {1	In2306	ppm	160	4.364	2.728	156.9	163.1
Cd2288	228.802 {4	Y_2243	ppm	0.5374	0.0011	0.2039	0.5366	0.5381
Co2286	228.616 {4	In2306	ppm	1.086	0.0053	0.4919	1.082	1.09
Cr2677	267.716 {1	Y_3600	ppm	1	0.0031	0.3056	1.002	0.998
Cu3247	324.754 {1	Y_3600	ppm	1.074	0.0056	0.5259	1.078	1.07
Fe2404	240.488 {1	In2306	ppm	10.59	0.2224	2.1	10.43	10.75
K_7664	766.490 {	Y_3710	ppm	33.76	1.169	3.462	32.94	34.59
K_7698	769.896 {	Y_3710	ppm	34.11	1.234	3.619	33.24	34.98
Li6707	670.784 {	Y_3710	ppm	0.5564	0.0207	3.72	0.5418	0.571
Mg2790	279.079 {1	Y_3710	ppm	25.5	0.7837	3.073	24.95	26.05
Mn2576	257.610 {1	Y_3600	ppm	1.042	0.0005	0.0485	1.042	1.041
Mn2576-2	257.610 {1	Y_3710	ppm	1.048	0.0292	2.79	1.028	1.069
Mo2020	202.030 {4	Y_2243	ppm	1.105	0.0023	0.2099	1.103	1.106
Na5895	589.592 {	Y_3710	ppm	710.4	3.034	0.427	712.6	708.3
Na8183	818.326 {	Y_3710	ppm	791.9	23.42	2.958	775.4	808.5
Ni2316	231.604 {4	In2306	ppm	1.089	0.0025	0.2269	1.088	1.091
P_1782	178.284 {4	In2306	ppm	0.5121	0.0032	0.6322	0.5098	0.5144
Pb2203	220.353 {4	In2306	ppm	1.035	0.009	0.8673	1.029	1.041
S_1820	182.034 {4	Y_2243	ppm	-205200	951	0.4635	-204500	-205900
Sb2068	206.833 {4	Y_2243	ppm	1.052	0.0027	0.2522	1.05	1.054
Se1960	196.090 {4	Y_2243	ppm	1.145	0.0057	0.4953	1.141	1.149
Si2516	251.611 {1	Y_3710	ppm	15.79	0.4496	2.848	15.47	16.1
Sn1899	189.989 {4	In2306	ppm	1.079	0.0037	0.3432	1.076	1.082
Sr4215	421.552 {	Y_3710	ppm	1.635	0.0509	3.115	1.599	1.671
Ti3349	334.904 {1	Y_3600	ppm	1.04	0.0029	0.2775	1.038	1.042
Tl1908	190.856 {4	In2306	ppm	0.8679	0.0904	10.42	0.9318	0.8039
V_2924	292.402 {1	Y_3600	ppm	1.047	0.0049	0.4651	1.051	1.044
Zn2062	206.200 {4	In2306	ppm	1.18	0.0089	0.7564	1.174	1.186

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	934.43	20.464	2.19	948.9	919.96
In2306	230.606 {4	Cts/S	10922	69.169	0.63329	10971	10873
Y_2243	224.306 {4	Cts/S	19023	89.804	0.47209	19086	18959
Y_3600	360.073 {	Cts/S	170000	26.714	0.01571	170020	169980
Y_3710	371.030 {	Cts/S	51259	1357.2	2.6478	52219	50300

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60809-c-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:55:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5603	0.0025	0.4417	0.5585	0.562
Al3082	308.215 {1	In2306	ppm	10.84	0.0859	0.7927	10.9	10.77
As1890	189.042 {4	Y_2243	ppm	1.125	0.0293	2.603	1.146	1.104
B_2496	249.678 {1	Y_3710	ppm	1.297	0.004	0.3057	1.3	1.294
Ba4554	455.403 {	Y_3710	ppm	1.213	0.001	0.0831	1.212	1.214
Be3130	313.042 {1	Y_3710	ppm	0.5188	0.0011	0.2134	0.518	0.5195
Ca3158	315.887 {1	In2306	ppm	159	0.173	0.1088	159.1	158.8
Ca3181	318.128 {1	In2306	ppm	159.1	0.7186	0.4518	159.6	158.5
Cd2288	228.802 {4	Y_2243	ppm	0.5402	0.0162	3	0.5516	0.5287
Co2286	228.616 {4	In2306	ppm	1.091	0.0302	2.764	1.113	1.07
Cr2677	267.716 {1	Y_3600	ppm	1.01	0.0016	0.1551	1.009	1.011
Cu3247	324.754 {1	Y_3600	ppm	1.082	0.005	0.4579	1.086	1.079
Fe2404	240.488 {1	In2306	ppm	10.54	0.0571	0.5415	10.58	10.5
K_7664	766.490 {	Y_3710	ppm	33.59	0.0954	0.284	33.53	33.66
K_7698	769.896 {	Y_3710	ppm	33.91	0.0103	0.0302	33.9	33.92
Li6707	670.784 {	Y_3710	ppm	0.5527	0.0054	0.9752	0.5489	0.5565
Mg2790	279.079 {1	Y_3710	ppm	25.51	0.0116	0.0453	25.51	25.52
Mn2576	257.610 {1	Y_3600	ppm	1.048	0.0016	0.1546	1.047	1.049
Mn2576-2	257.610 {1	Y_3710	ppm	1.04	0.0081	0.7758	1.035	1.046
Mo2020	202.030 {4	Y_2243	ppm	1.115	0.0384	3.443	1.142	1.088
Na5895	589.592 {	Y_3710	ppm	718.9	1.251	0.1741	719.8	718.1
Na8183	818.326 {	Y_3710	ppm	789.6	1.543	0.1954	788.5	790.7
Ni2316	231.604 {4	In2306	ppm	1.094	0.0305	2.785	1.115	1.072
P_1782	178.284 {4	In2306	ppm	0.5016	0.0145	2.886	0.5119	0.4914
Pb2203	220.353 {4	In2306	ppm	1.04	0.0294	2.832	1.061	1.019
S_1820	182.034 {4	Y_2243	ppm	-206100	6332	3.072	-210600	-201600
Sb2068	206.833 {4	Y_2243	ppm	1.069	0.0378	3.535	1.096	1.042
Se1960	196.090 {4	Y_2243	ppm	1.154	0.041	3.551	1.183	1.125
Si2516	251.611 {1	Y_3710	ppm	15.67	0.0044	0.0278	15.67	15.67
Sn1899	189.989 {4	In2306	ppm	1.088	0.0298	2.74	1.109	1.067
Sr4215	421.552 {	Y_3710	ppm	1.626	0.0033	0.2029	1.624	1.628
Ti3349	334.904 {1	Y_3600	ppm	1.053	0.0025	0.2341	1.051	1.055
Tl1908	190.856 {4	In2306	ppm	1.07	0.0869	8.121	1.132	1.009
V_2924	292.402 {1	Y_3600	ppm	1.06	0.0019	0.1745	1.059	1.062
Zn2062	206.200 {4	In2306	ppm	1.189	0.0315	2.648	1.211	1.167

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	939.4	5.4173	0.57668	935.57	943.23
In2306	230.606 {4	Cts/S	10891	254.61	2.3377	10711	11072
Y_2243	224.306 {4	Cts/S	18976	492.68	2.5963	18628	19325
Y_3600	360.073 {	Cts/S	169650	206.25	0.12158	169790	169500
Y_3710	371.030 {	Cts/S	51586	154.15	0.29883	51695	51477

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:57:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2419	0.006	2.462	0.2376	0.2461
Al3082	308.215 {1	In2306	ppm	2.462	0.0148	0.6	2.473	2.452
As1890	189.042 {4	Y_2243	ppm	0.4915	0.0025	0.5007	0.4898	0.4933
B_2496	249.678 {1	Y_3710	ppm	0.4865	0.0019	0.3923	0.4879	0.4852
Ba4554	455.403 {	Y_3710	ppm	0.4865	0.0004	0.0857	0.4862	0.4868
Be3130	313.042 {1	Y_3710	ppm	0.4923	0.001	0.198	0.4916	0.493
Ca3158	315.887 {1	In2306	ppm	12.09	0.0443	0.3669	12.05	12.12
Ca3181	318.128 {1	In2306	ppm	12.19	0.0277	0.2269	12.17	12.21
Cd2288	228.802 {4	Y_2243	ppm	0.4888	0.0039	0.8073	0.4861	0.4916
Co2286	228.616 {4	In2306	ppm	0.4839	0.0052	1.08	0.4802	0.4876
Cr2677	267.716 {1	Y_3600	ppm	0.4858	0.0156	3.221	0.4748	0.4969
Cu3247	324.754 {1	Y_3600	ppm	0.4865	0.0156	3.207	0.4755	0.4976
Fe2404	240.488 {1	In2306	ppm	2.472	0.0034	0.1357	2.47	2.474
K_7664	766.490 {	Y_3710	ppm	12.42	0.0014	0.0112	12.42	12.42
K_7698	769.896 {	Y_3710	ppm	12.41	0.0145	0.1168	12.4	12.42
Li6707	670.784 {	Y_3710	ppm	0.4923	0.001	0.2117	0.4916	0.4931
Mg2790	279.079 {1	Y_3710	ppm	4.883	0.0488	0.9991	4.849	4.918
Mn2576	257.610 {1	Y_3600	ppm	0.4809	0.0139	2.892	0.4711	0.4907
Mn2576-2	257.610 {1	Y_3710	ppm	0.4871	0.0011	0.2164	0.4864	0.4878
Mo2020	202.030 {4	Y_2243	ppm	0.5032	0.0045	0.8932	0.5	0.5064
Na5895	589.592 {	Y_3710	ppm	12.55	0.0074	0.0593	12.54	12.56
Na8183	818.326 {	Y_3710	ppm	12.46	0.1017	0.8167	12.53	12.39
Ni2316	231.604 {4	In2306	ppm	0.4842	0.0043	0.8815	0.4812	0.4873
P_1782	178.284 {4	In2306	ppm	0.4882	0.0073	1.494	0.483	0.4933
Pb2203	220.353 {4	In2306	ppm	0.4838	0.0044	0.9003	0.4807	0.4869
S_1820	182.034 {4	Y_2243	ppm	-564.7	9.118	1.615	-558.2	-571.1
Sb2068	206.833 {4	Y_2243	ppm	0.499	0.0032	0.6467	0.4967	0.5012
Se1960	196.090 {4	Y_2243	ppm	0.4936	0.0023	0.4642	0.492	0.4952
Si2516	251.611 {1	Y_3710	ppm	0.9527	0.0098	1.028	0.9458	0.9597
Sn1899	189.989 {4	In2306	ppm	0.4873	0.0049	1.005	0.4838	0.4908
Sr4215	421.552 {	Y_3710	ppm	0.246	0.0005	0.2182	0.2456	0.2464
Ti3349	334.904 {1	Y_3600	ppm	0.4911	0.0147	2.985	0.4807	0.5014
Tl1908	190.856 {4	In2306	ppm	0.6154	0.017	2.755	0.6034	0.6274
V_2924	292.402 {1	Y_3600	ppm	0.4948	0.0166	3.353	0.483	0.5065
Zn2062	206.200 {4	In2306	ppm	0.4796	0.0038	0.7896	0.4769	0.4823

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1005.2	4.2124	0.41905	1002.2	1008.2
In2306	230.606 {4	Cts/S	14155	112.29	0.7933	14234	14075
Y_2243	224.306 {4	Cts/S	21490	128.43	0.59765	21581	21399
Y_3600	360.073 {	Cts/S	196900	4013.3	2.0383	199730	194060
Y_3710	371.030 {	Cts/S	53593	149.75	0.27941	53488	53699

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 15:59:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0047	0.0008	16.27	0.0052	0.0041
Al3082	308.215 {1	In2306	ppm	0.1103	0.0033	2.985	0.1126	0.108
As1890	189.042 {4	Y_2243	ppm	0.0103	0.0007	7.22	0.0108	0.0097
B_2496	249.678 {1	Y_3710	ppm	-0.002	0.0029	143.9	0	-0.0041
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0007	7.214	0.0104	0.0094
Be3130	313.042 {1	Y_3710	ppm	0.0048	0.0002	4.625	0.005	0.0047
Ca3158	315.887 {1	In2306	ppm	0.1042	0.0042	4.012	0.1072	0.1012
Ca3181	318.128 {1	In2306	ppm	0.1032	0.02	19.39	0.0891	0.1174
Cd2288	228.802 {4	Y_2243	ppm	0.0053	0.0002	4.389	0.0051	0.0054
Co2286	228.616 {4	In2306	ppm	0.0099	0.0004	3.599	0.0096	0.0102
Cr2677	267.716 {1	Y_3600	ppm	0.0104	0.0001	0.505	0.0104	0.0105
Cu3247	324.754 {1	Y_3600	ppm	0.0086	0.0001	1.705	0.0087	0.0085
Fe2404	240.488 {1	In2306	ppm	0.1018	0.0085	8.326	0.1078	0.0958
K_7664	766.490 {	Y_3710	ppm	0.6167	0.033	5.349	0.64	0.5933
K_7698	769.896 {	Y_3710	ppm	0.4157	0.062	14.91	0.4595	0.3719
Li6707	670.784 {	Y_3710	ppm	0.0084	0.0002	2.08	0.0085	0.0082
Mg2790	279.079 {1	Y_3710	ppm	0.1107	0.0044	4.008	0.1139	0.1076
Mn2576	257.610 {1	Y_3600	ppm	0.0102	0.0001	0.9633	0.0102	0.0101
Mn2576-2	257.610 {1	Y_3710	ppm	0.0105	0.0007	6.385	0.011	0.0101
Mo2020	202.030 {4	Y_2243	ppm	0.0121	0.0007	5.984	0.0116	0.0126
Na5895	589.592 {	Y_3710	ppm	0.6706	0.0447	6.668	0.7022	0.6389
Na8183	818.326 {	Y_3710	ppm	0.2682	0.1009	37.62	0.1968	0.3395
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0003	2.617	0.0099	0.0103
P_1782	178.284 {4	In2306	ppm	0.0072	0.0002	2.76	0.007	0.0073
Pb2203	220.353 {4	In2306	ppm	0.0095	0.0004	3.764	0.0092	0.0097
S_1820	182.034 {4	Y_2243	ppm	-7.076	0.3134	4.429	-7.298	-6.855
Sb2068	206.833 {4	Y_2243	ppm	0.0135	0.0006	4.119	0.0131	0.0139
Se1960	196.090 {4	Y_2243	ppm	0.0097	0.0013	12.94	0.0088	0.0106
Si2516	251.611 {1	Y_3710	ppm	0.0113	0.0032	28.24	0.0091	0.0136
Sn1899	189.989 {4	In2306	ppm	0.0104	0.0003	2.669	0.0102	0.0106
Sr4215	421.552 {	Y_3710	ppm	0.005	0.0004	8.077	0.0053	0.0047
Ti3349	334.904 {1	Y_3600	ppm	0.0099	0.0004	3.984	0.0102	0.0096
Tl1908	190.856 {4	In2306	ppm	0.1174	0.0348	29.65	0.0928	0.142
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0001	1.505	0.0098	0.01
Zn2062	206.200 {4	In2306	ppm	0.0098	0.0001	1.3	0.0098	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1027.7	57.918	5.6355	986.79	1068.7
In2306	230.606 {4	Cts/S	14912	120.12	0.80551	14827	14997
Y_2243	224.306 {4	Cts/S	21763	162.54	0.74686	21649	21878
Y_3600	360.073 {	Cts/S	197390	1476.5	0.74799	196350	198440
Y_3710	371.030 {	Cts/S	54429	3400.9	6.2484	52024	56833

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:02:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0011	178.8	-0.0002	0.0014
Al3082	308.215 {1	In2306	ppm	0.0258	0.0136	52.87	0.0162	0.0355
As1890	189.042 {4	Y_2243	ppm	0.0009	0.001	117	0.0002	0.0016
B_2496	249.678 {1	Y_3710	ppm	-0.0126	0.0029	22.81	-0.0106	-0.0146
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	28.11	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	63.49	0	0
Ca3158	315.887 {1	In2306	ppm	0.0051	0.0031	60.61	0.0029	0.0073
Ca3181	318.128 {1	In2306	ppm	-0.0162	0.0051	31.33	-0.0126	-0.0197
Cd2288	228.802 {4	Y_2243	ppm	0	0	57.26	0	0
Co2286	228.616 {4	In2306	ppm	-0.0001	0	25.22	-0.0001	-0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.0001	0	6.241	0.0001	0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.0022	0.0005	21.5	-0.0019	-0.0026
Fe2404	240.488 {1	In2306	ppm	0.0015	0.0024	166.6	0.0032	-0.0003
K_7664	766.490 {	Y_3710	ppm	0.0047	0.0058	122.4	0.0006	0.0088
K_7698	769.896 {	Y_3710	ppm	-0.1621	0.0183	11.28	-0.175	-0.1492
Li6707	670.784 {	Y_3710	ppm	-0.0011	0	2.529	-0.0011	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	-0.0004	0.0085	2052	0.0056	-0.0064
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0	49.42	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0001	0.0005	405.6	0.0002	-0.0005
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	38.73	0.0001	0.0003
Na5895	589.592 {	Y_3710	ppm	0.046	0.0048	10.34	0.0493	0.0426
Na8183	818.326 {	Y_3710	ppm	-0.0378	0.2094	554.5	-0.1858	0.1103
Ni2316	231.604 {4	In2306	ppm	0.0001	0	9.743	0.0001	0.0001
P_1782	178.284 {4	In2306	ppm	-0.0022	0.0009	39.54	-0.0029	-0.0016
Pb2203	220.353 {4	In2306	ppm	-0.0004	0.0006	136.3	0	-0.0008
S_1820	182.034 {4	Y_2243	ppm	-5.114	0.3436	6.718	-5.357	-4.871
Sb2068	206.833 {4	Y_2243	ppm	0.001	0.0001	8.007	0.001	0.0009
Se1960	196.090 {4	Y_2243	ppm	-0.0002	0.0011	656.2	0.0006	-0.0009
Si2516	251.611 {1	Y_3710	ppm	0.0031	0.0047	149.8	-0.0002	0.0065
Sn1899	189.989 {4	In2306	ppm	0.0001	0	11.52	0.0001	0.0001
Sr4215	421.552 {	Y_3710	ppm	-0.0001	0	68	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0	47.46	-0.0001	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.021	0.0154	73.12	0.0102	0.0319
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0001	91.42	-0.0002	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0001	0	39.15	-0.0001	-0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1017.6	8.9411	0.87866	1011.3	1023.9
In2306	230.606 {4	Cts/S	14904	216.32	1.4514	14751	15057
Y_2243	224.306 {4	Cts/S	21666	303.83	1.4024	21451	21881
Y_3600	360.073 {	Cts/S	197550	5457.4	2.7625	201410	193690
Y_3710	371.030 {	Cts/S	53444	305.34	0.57132	53228	53660

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60813-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:04:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.002	0.0009	42.42	0.0026	0.0014
Al3082	308.215 {1	In2306	ppm	0.1887	0.0132	7.015	0.1794	0.1981
As1890	189.042 {4	Y_2243	ppm	0.0051	0	0.7479	0.0051	0.005
B_2496	249.678 {1	Y_3710	ppm	0.102	0.0063	6.225	0.1065	0.0975
Ba4554	455.403 {	Y_3710	ppm	0.0413	0.0012	2.832	0.0422	0.0405
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	96.81	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	20.57	0.3681	1.79	20.83	20.31
Ca3181	318.128 {1	In2306	ppm	20.63	0.4023	1.949	20.92	20.35
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	26.81	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	51.96	0.0001	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.0089	0.0007	7.728	0.0094	0.0084
Cu3247	324.754 {1	Y_3600	ppm	0.1291	0.0105	8.115	0.1365	0.1217
Fe2404	240.488 {1	In2306	ppm	1.255	0.0235	1.874	1.272	1.239
K_7664	766.490 {	Y_3710	ppm	10.82	0.2907	2.688	11.02	10.61
K_7698	769.896 {	Y_3710	ppm	11.23	0.2755	2.452	11.43	11.04
Li6707	670.784 {	Y_3710	ppm	0.0098	0.0013	12.88	0.0107	0.0089
Mg2790	279.079 {1	Y_3710	ppm	2.81	0.0616	2.193	2.854	2.766
Mn2576	257.610 {1	Y_3600	ppm	0.0289	0.0022	7.733	0.0305	0.0273
Mn2576-2	257.610 {1	Y_3710	ppm	0.0255	0.0012	4.643	0.0264	0.0247
Mo2020	202.030 {4	Y_2243	ppm	0.0042	0	0.6006	0.0042	0.0042
Na5895	589.592 {	Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Na8183	818.326 {	Y_3710	ppm	7673	30.48	0.3972	7695	7652
Ni2316	231.604 {4	In2306	ppm	0.0741	0.0002	0.2619	0.0739	0.0742
P_1782	178.284 {4	In2306	ppm	1.406	0.0128	0.9073	1.415	1.397
Pb2203	220.353 {4	In2306	ppm	-0.0022	0.0001	5.212	-0.0022	-0.0021
S_1820	182.034 {4	Y_2243	ppm	-44570	261.8	0.5875	-44760	-44390
Sb2068	206.833 {4	Y_2243	ppm	0.0015	0.0023	148.3	0.0031	-0.0001
Se1960	196.090 {4	Y_2243	ppm	0.0086	0.0015	17.86	0.0075	0.0097
Si2516	251.611 {1	Y_3710	ppm	5.186	0.1502	2.897	5.293	5.08
Sn1899	189.989 {4	In2306	ppm	0.0039	0.0001	2.424	0.004	0.0038
Sr4215	421.552 {	Y_3710	ppm	0.1885	0.0053	2.814	0.1922	0.1847
Ti3349	334.904 {1	Y_3600	ppm	0.0014	0.0004	30.95	0.0017	0.0011
Tl1908	190.856 {4	In2306	ppm	-0.0082	0.0055	66.86	-0.012	-0.0043
V_2924	292.402 {1	Y_3600	ppm	0.0035	0.0004	12.16	0.0038	0.0032
Zn2062	206.200 {4	In2306	ppm	0.1708	0.0014	0.7983	0.1718	0.1699

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	874.89	11.049	1.2629	867.07	882.7
In2306	230.606 {4	Cts/S	8638.4	21.596	0.25	8653.6	8623.1
Y_2243	224.306 {4	Cts/S	16742	38.168	0.22798	16769	16715
Y_3600	360.073 {	Cts/S	132640	8164.3	6.1551	126870	138410
Y_3710	371.030 {	Cts/S	48024	546.23	1.1374	47638	48410

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60792-c-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:07:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0015	0.0015	101.7	-0.0004	-0.0026
Al3082	308.215 {1	In2306	ppm	6.967	0.079	1.134	7.023	6.911
As1890	189.042 {4	Y_2243	ppm	0.0258	0.0005	1.958	0.0262	0.0254
B_2496	249.678 {1	Y_3710	ppm	0.125	0.0006	0.4486	0.1253	0.1246
Ba4554	455.403 {	Y_3710	ppm	0.0051	0.0001	2.004	0.0051	0.005
Be3130	313.042 {1	Y_3710	ppm	0.0005	0	2	0.0005	0.0005
Ca3158	315.887 {1	In2306	ppm	407.5	1.173	0.288	406.7	408.3
Ca3181	318.128 {1	In2306	ppm	423.2	2.885	0.6816	425.2	421.1
Cd2288	228.802 {4	Y_2243	ppm	0.0022	0	2.007	0.0022	0.0021
Co2286	228.616 {4	In2306	ppm	0.0126	0	0.1223	0.0126	0.0126
Cr2677	267.716 {1	Y_3600	ppm	0.0032	0.0002	7.589	0.003	0.0034
Cu3247	324.754 {1	Y_3600	ppm	-0.0014	0.0002	15.26	-0.0013	-0.0016
Fe2404	240.488 {1	In2306	ppm	7.315	0.0448	0.6118	7.347	7.283
K_7664	766.490 {	Y_3710	ppm	29.43	0.0112	0.0379	29.43	29.42
K_7698	769.896 {	Y_3710	ppm	29.6	0.0277	0.0936	29.62	29.58
Li6707	670.784 {	Y_3710	ppm	0.0369	0.001	2.715	0.0376	0.0362
Mg2790	279.079 {1	Y_3710	ppm	26.52	0.0378	0.1427	26.49	26.54
Mn2576	257.610 {1	Y_3600	ppm	1.11	0.0061	0.5532	1.106	1.114
Mn2576-2	257.610 {1	Y_3710	ppm	1.113	0.0065	0.5853	1.117	1.108
Mo2020	202.030 {4	Y_2243	ppm	0.0005	0.0001	18.74	0.0005	0.0006
Na5895	589.592 {	Y_3710	ppm	228.1	3.572	1.566	225.6	230.7
Na8183	818.326 {	Y_3710	ppm	243.3	0.1601	0.0658	243.4	243.2
Ni2316	231.604 {4	In2306	ppm	0.0486	0.0002	0.4764	0.0488	0.0485
P_1782	178.284 {4	In2306	ppm	66.14	0.5705	0.8627	66.54	65.73
Pb2203	220.353 {4	In2306	ppm	0.0016	0.0011	66.86	0.0008	0.0023
S_1820	182.034 {4	Y_2243	ppm	-165400	1541	0.9319	-166400	-164300
Sb2068	206.833 {4	Y_2243	ppm	-0.0041	0.0005	11.87	-0.0038	-0.0045
Se1960	196.090 {4	Y_2243	ppm	0.0022	0.0001	4.722	0.0022	0.0021
Si2516	251.611 {1	Y_3710	ppm	27.48	0.0702	0.2555	27.53	27.44
Sn1899	189.989 {4	In2306	ppm	0.0007	0.0003	38.49	0.0005	0.0009
Sr4215	421.552 {	Y_3710	ppm	2.546	0.0195	0.7671	2.56	2.533
Ti3349	334.904 {1	Y_3600	ppm	0.0028	0.0001	2.647	0.0029	0.0028
Tl1908	190.856 {4	In2306	ppm	-0.0334	0.0024	7.199	-0.0351	-0.0317
V_2924	292.402 {1	Y_3600	ppm	0.0021	0	0.5342	0.0021	0.0021
Zn2062	206.200 {4	In2306	ppm	0.1505	0.001	0.6419	0.1512	0.1499

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	950.37	6.5749	0.69182	945.72	955.02
In2306	230.606 {4	Cts/S	11132	51.268	0.46053	11096	11168
Y_2243	224.306 {4	Cts/S	18735	130.51	0.69662	18643	18827
Y_3600	360.073 {	Cts/S	174970	752.88	0.4303	175500	174430
Y_3710	371.030 {	Cts/S	52051	31.793	0.06108	52028	52073

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60614-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:09:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0017	0.0001	5.063	0.0017	0.0018
Al3082	308.215 {1	In2306	ppm	0.0337	0.0085	25.08	0.0397	0.0277
As1890	189.042 {4	Y_2243	ppm	0.0045	0.0015	33.88	0.0034	0.0055
B_2496	249.678 {1	Y_3710	ppm	-0.0088	0.003	33.83	-0.0067	-0.011
Ba4554	455.403 {	Y_3710	ppm	0.0011	0	0.5218	0.0011	0.0011
Be3130	313.042 {1	Y_3710	ppm	0	0	104.9	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.843	0.0015	0.178	0.842	0.8441
Ca3181	318.128 {1	In2306	ppm	0.8673	0.0018	0.2046	0.866	0.8685
Cd2288	228.802 {4	Y_2243	ppm	0	0	42.91	0	0
Co2286	228.616 {4	In2306	ppm	0.0053	0	0.6932	0.0053	0.0053
Cr2677	267.716 {1	Y_3600	ppm	0.6405	0.0046	0.7107	0.6437	0.6373
Cu3247	324.754 {1	Y_3600	ppm	0.0142	0.0004	2.778	0.0145	0.0139
Fe2404	240.488 {1	In2306	ppm	3.414	0.0029	0.0843	3.412	3.416
K_7664	766.490 {	Y_3710	ppm	0.1475	0.0007	0.4411	0.1479	0.147
K_7698	769.896 {	Y_3710	ppm	-0.4062	0.0167	4.099	-0.418	-0.3944
Li6707	670.784 {	Y_3710	ppm	0.0009	0.0004	45.22	0.0012	0.0006
Mg2790	279.079 {1	Y_3710	ppm	0.062	0.0013	2.023	0.0629	0.0611
Mn2576	257.610 {1	Y_3600	ppm	0.0655	0.0006	0.8541	0.0659	0.0651
Mn2576-2	257.610 {1	Y_3710	ppm	0.0652	0.0008	1.282	0.0646	0.0658
Mo2020	202.030 {4	Y_2243	ppm	0.075	0.0002	0.3103	0.0751	0.0748
Na5895	589.592 {	Y_3710	ppm	1.387	0.0081	0.5854	1.393	1.381
Na8183	818.326 {	Y_3710	ppm	0.4445	0.0269	6.062	0.4255	0.4636
Ni2316	231.604 {4	In2306	ppm	0.3429	0.0007	0.1933	0.3425	0.3434
P_1782	178.284 {4	In2306	ppm	0.9412	0.9531	101.3	0.2673	1.615
Pb2203	220.353 {4	In2306	ppm	-0.0004	0	1.734	-0.0004	-0.0004
S_1820	182.034 {4	Y_2243	ppm	-1.29E+06	730.7	0.0566	-1.29E+06	-1.29E+06
Sb2068	206.833 {4	Y_2243	ppm	-0.0047	0	0.8411	-0.0048	-0.0047
Se1960	196.090 {4	Y_2243	ppm	0.0027	0.0024	89.74	0.001	0.0044
Si2516	251.611 {1	Y_3710	ppm	0.1109	0.0107	9.612	0.1034	0.1184
Sn1899	189.989 {4	In2306	ppm	-0.0125	0.0004	2.982	-0.0127	-0.0122
Sr4215	421.552 {	Y_3710	ppm	0.0038	0.0001	3.605	0.0039	0.0037
Ti3349	334.904 {1	Y_3600	ppm	0.0012	0.0002	19.21	0.0011	0.0014
Tl1908	190.856 {4	In2306	ppm	-0.0446	0.0009	1.939	-0.0452	-0.0439
V_2924	292.402 {1	Y_3600	ppm	0.0017	0	2.946	0.0016	0.0017
Zn2062	206.200 {4	In2306	ppm	0.0348	0.0022	6.226	0.0332	0.0363

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	885.08	6.5641	0.74165	880.44	889.72
In2306	230.606 {4	Cts/S	12165	163.82	1.3467	12281	12049
Y_2243	224.306 {4	Cts/S	17907	40.357	0.22537	17935	17878
Y_3600	360.073 {	Cts/S	161240	1769.8	1.0976	159980	162490
Y_3710	371.030 {	Cts/S	46378	258.9	0.55824	46561	46195

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60614-a-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:12:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0004	254	-0.0001	0.0005
Al3082	308.215 {1	In2306	ppm	1.817	0.0556	3.06	1.778	1.856
As1890	189.042 {4	Y_2243	ppm	0.0043	0.0003	6.943	0.0046	0.0041
B_2496	249.678 {1	Y_3710	ppm	0.2374	0.009	3.8	0.2311	0.2438
Ba4554	455.403 {	Y_3710	ppm	0.3841	0.0072	1.862	0.379	0.3891
Be3130	313.042 {1	Y_3710	ppm	-0.0002	0	27.7	-0.0002	-0.0001
Ca3158	315.887 {1	In2306	ppm	1.445	0.0359	2.483	1.42	1.47
Ca3181	318.128 {1	In2306	ppm	1.48	0.0109	0.7357	1.473	1.488
Cd2288	228.802 {4	Y_2243	ppm	0	0.0001	1432	0	-0.0001
Co2286	228.616 {4	In2306	ppm	0.0281	0.0008	3.02	0.0287	0.0275
Cr2677	267.716 {1	Y_3600	ppm	3.97	0.0067	0.1681	3.975	3.966
Cu3247	324.754 {1	Y_3600	ppm	6.693	0.0434	0.6491	6.724	6.662
Fe2404	240.488 {1	In2306	ppm	18.72	0.4993	2.667	18.37	19.08
K_7664	766.490 {	Y_3710	ppm	0.2354	0.0094	4.011	0.2287	0.242
K_7698	769.896 {	Y_3710	ppm	-0.1529	0.0178	11.63	-0.1655	-0.1403
Li6707	670.784 {	Y_3710	ppm	0.0016	0.001	62.89	0.0024	0.0009
Mg2790	279.079 {1	Y_3710	ppm	0.4131	0.0112	2.714	0.4052	0.421
Mn2576	257.610 {1	Y_3600	ppm	0.3548	0.0015	0.4288	0.3559	0.3537
Mn2576-2	257.610 {1	Y_3710	ppm	0.3573	0.0091	2.559	0.3508	0.3638
Mo2020	202.030 {4	Y_2243	ppm	0.1742	0.0041	2.356	0.1771	0.1713
Na5895	589.592 {	Y_3710	ppm	2.427	0.0404	1.665	2.398	2.456
Na8183	818.326 {	Y_3710	ppm	2.053	0.0947	4.612	1.986	2.12
Ni2316	231.604 {4	In2306	ppm	2.183	0.0521	2.386	2.22	2.147
P_1782	178.284 {4	In2306	ppm	0.9187	0.0364	3.961	0.893	0.9444
Pb2203	220.353 {4	In2306	ppm	0.0051	0.0004	7.517	0.0053	0.0048
S_1820	182.034 {4	Y_2243	ppm	-1.15E+06	7289	0.6365	-1.15E+06	-1.14E+06
Sb2068	206.833 {4	Y_2243	ppm	-0.0207	0.0003	1.447	-0.0209	-0.0205
Se1960	196.090 {4	Y_2243	ppm	0.0023	0.001	45.07	0.0031	0.0016
Si2516	251.611 {1	Y_3710	ppm	0.058	0.0026	4.488	0.0598	0.0561
Sn1899	189.989 {4	In2306	ppm	-0.0062	0.0002	3.002	-0.0061	-0.0063
Sr4215	421.552 {	Y_3710	ppm	0.0173	0.0004	2.556	0.017	0.0176
Ti3349	334.904 {1	Y_3600	ppm	2.296	0.006	0.2634	2.3	2.292
Tl1908	190.856 {4	In2306	ppm	-0.0449	0.0006	1.356	-0.0453	-0.0445
V_2924	292.402 {1	Y_3600	ppm	0.0168	0.0005	3.018	0.0165	0.0172
Zn2062	206.200 {4	In2306	ppm	0.9759	0.0219	2.246	0.9914	0.9604

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	950.04	20.958	2.2061	964.86	935.22
In2306	230.606 {4	Cts/S	13062	107.57	0.82351	12986	13138
Y_2243	224.306 {4	Cts/S	19081	144.7	0.75834	18979	19184
Y_3600	360.073 {	Cts/S	177470	854.23	0.48134	176870	178080
Y_3710	371.030 {	Cts/S	49787	1202.6	2.4156	50637	48936

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60614-a-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:14:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0013	0.0003	23.05	0.0011	0.0015
Al3082	308.215 {1	In2306	ppm	1.346	0.004	0.2974	1.349	1.344
As1890	189.042 {4	Y_2243	ppm	0.0039	0.0004	9.383	0.0041	0.0036
B_2496	249.678 {1	Y_3710	ppm	0.3284	0.0019	0.5916	0.327	0.3297
Ba4554	455.403 {	Y_3710	ppm	0.538	0.0061	1.131	0.5337	0.5423
Be3130	313.042 {1	Y_3710	ppm	-0.0002	0.0001	43.33	-0.0002	-0.0001
Ca3158	315.887 {1	In2306	ppm	1.397	0.0139	0.9977	1.387	1.407
Ca3181	318.128 {1	In2306	ppm	1.424	0.0227	1.591	1.408	1.44
Cd2288	228.802 {4	Y_2243	ppm	-0.0001	0	1.56	-0.0001	-0.0001
Co2286	228.616 {4	In2306	ppm	0.0237	0.0003	1.32	0.0235	0.024
Cr2677	267.716 {1	Y_3600	ppm	3.422	0.0165	0.4832	3.434	3.41
Cu3247	324.754 {1	Y_3600	ppm	5.427	0.017	0.3134	5.415	5.439
Fe2404	240.488 {1	In2306	ppm	15.38	0.1623	1.056	15.26	15.49
K_7664	766.490 {	Y_3710	ppm	0.2362	0.0003	0.1094	0.236	0.2364
K_7698	769.896 {	Y_3710	ppm	-0.1636	0.0225	13.73	-0.1477	-0.1794
Li6707	670.784 {	Y_3710	ppm	0.0001	0.0004	382.6	-0.0002	0.0004
Mg2790	279.079 {1	Y_3710	ppm	0.1699	0.0061	3.582	0.1742	0.1656
Mn2576	257.610 {1	Y_3600	ppm	0.2994	0.0011	0.3754	0.3002	0.2987
Mn2576-2	257.610 {1	Y_3710	ppm	0.2978	0.0035	1.182	0.2953	0.3003
Mo2020	202.030 {4	Y_2243	ppm	0.1465	0.0005	0.3666	0.1469	0.1461
Na5895	589.592 {	Y_3710	ppm	2.45	0.0092	0.3747	2.444	2.457
Na8183	818.326 {	Y_3710	ppm	2.247	0.1449	6.45	2.35	2.145
Ni2316	231.604 {4	In2306	ppm	1.861	0.0009	0.0458	1.862	1.86
P_1782	178.284 {4	In2306	ppm	1.018	0.0035	0.343	1.021	1.016
Pb2203	220.353 {4	In2306	ppm	0.0028	0.0007	27.02	0.0033	0.0022
S_1820	182.034 {4	Y_2243	ppm	-1.10E+06	15230	1.389	-1.11E+06	-1.09E+06
Sb2068	206.833 {4	Y_2243	ppm	-0.0202	0.0005	2.426	-0.0199	-0.0206
Se1960	196.090 {4	Y_2243	ppm	0.0022	0.0009	38.6	0.0016	0.0028
Si2516	251.611 {1	Y_3710	ppm	0.0412	0.0022	5.32	0.0428	0.0397
Sn1899	189.989 {4	In2306	ppm	-0.0039	0.0001	1.946	-0.0039	-0.004
Sr4215	421.552 {	Y_3710	ppm	0.0174	0.0001	0.321	0.0174	0.0174
Ti3349	334.904 {1	Y_3600	ppm	1.859	0.0043	0.2308	1.862	1.856
Tl1908	190.856 {4	In2306	ppm	-0.0491	0.0012	2.468	-0.0499	-0.0482
V_2924	292.402 {1	Y_3600	ppm	0.0144	0.0002	1.571	0.0142	0.0146
Zn2062	206.200 {4	In2306	ppm	0.7238	0.0014	0.1925	0.7228	0.7248

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	956.5	6.1286	0.64073	960.83	952.16
In2306	230.606 {4	Cts/S	13359	1.2766	0.00956	13359	13358
Y_2243	224.306 {4	Cts/S	19468	49.203	0.25275	19433	19502
Y_3600	360.073 {	Cts/S	179470	56.082	0.03125	179430	179510
Y_3710	371.030 {	Cts/S	50433	57.448	0.11391	50473	50392

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60779-e-5-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:16:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0006	0.0008	135.5	-0.0012	0
Al3082	308.215 {1	In2306	ppm	1.559	0.042	2.697	1.588	1.529
As1890	189.042 {4	Y_2243	ppm	0.0024	0.0004	16.27	0.0021	0.0027
B_2496	249.678 {1	Y_3710	ppm	0.1101	0.0013	1.175	0.1091	0.111
Ba4554	455.403 {	Y_3710	ppm	0.0585	0.0016	2.7	0.0596	0.0574
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	136.1	-0.0001	0
Ca3158	315.887 {1	In2306	ppm	216.7	4.192	1.935	219.6	213.7
Ca3181	318.128 {1	In2306	ppm	219.2	3.398	1.55	221.6	216.8
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	7.003	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0006	0.0001	9.376	0.0007	0.0006
Cr2677	267.716 {1	Y_3600	ppm	0.0021	0.0003	15.94	0.0024	0.0019
Cu3247	324.754 {1	Y_3600	ppm	-0.001	0.0001	8.021	-0.0011	-0.0009
Fe2404	240.488 {1	In2306	ppm	0.1648	0.0033	1.977	0.1671	0.1625
K_7664	766.490 {	Y_3710	ppm	14.83	0.2901	1.956	15.03	14.62
K_7698	769.896 {	Y_3710	ppm	14.95	0.3803	2.544	15.22	14.68
Li6707	670.784 {	Y_3710	ppm	0.0124	0.0006	5.003	0.0128	0.0119
Mg2790	279.079 {1	Y_3710	ppm	16.12	0.4024	2.496	16.41	15.84
Mn2576	257.610 {1	Y_3600	ppm	0.0757	0.0035	4.56	0.0781	0.0732
Mn2576-2	257.610 {1	Y_3710	ppm	0.0744	0.0021	2.853	0.0759	0.0729
Mo2020	202.030 {4	Y_2243	ppm	0.0057	0.0004	6.624	0.0055	0.006
Na5895	589.592 {	Y_3710	ppm	826.2	4.944	0.5984	829.7	822.7
Na8183	818.326 {	Y_3710	ppm	938	21.6	2.302	953.3	922.8
Ni2316	231.604 {4	In2306	ppm	0.0201	0.0031	15.21	0.0179	0.0223
P_1782	178.284 {4	In2306	ppm	0.0567	0.0031	5.422	0.0546	0.0589
Pb2203	220.353 {4	In2306	ppm	0.0077	0.0001	1.821	0.0076	0.0078
S_1820	182.034 {4	Y_2243	ppm	-149400	7093	4.747	-144400	-154400
Sb2068	206.833 {4	Y_2243	ppm	-0.0016	0.0001	6.032	-0.0017	-0.0015
Se1960	196.090 {4	Y_2243	ppm	0.0002	0.003	1836	-0.002	0.0023
Si2516	251.611 {1	Y_3710	ppm	3.777	0.0891	2.359	3.84	3.714
Sn1899	189.989 {4	In2306	ppm	0	0.0007	2471	-0.0005	0.0005
Sr4215	421.552 {	Y_3710	ppm	0.3559	0.0083	2.328	0.3617	0.35
Ti3349	334.904 {1	Y_3600	ppm	0.0029	0.0002	7.684	0.003	0.0027
Tl1908	190.856 {4	In2306	ppm	-0.049	0.0006	1.322	-0.0495	-0.0486
V_2924	292.402 {1	Y_3600	ppm	0.0017	0.0004	26.38	0.002	0.0014
Zn2062	206.200 {4	In2306	ppm	0.0269	0.0014	5.293	0.0259	0.0279

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	943.25	11.826	1.2538	934.89	951.61
In2306	230.606 {4	Cts/S	10838	68.358	0.63072	10886	10790
Y_2243	224.306 {4	Cts/S	19093	149.14	0.7811	19199	18988
Y_3600	360.073 {	Cts/S	165900	5878.1	3.5432	161740	170050
Y_3710	371.030 {	Cts/S	51228	920.87	1.7976	50576	51879

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60796-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:19:14
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0004	68.78	0.0003	0.0008
Al3082	308.215 {1	In2306	ppm	1.572	0.0072	0.459	1.577	1.567
As1890	189.042 {4	Y_2243	ppm	0.008	0.0014	17.3	0.009	0.007
B_2496	249.678 {1	Y_3710	ppm	0.1083	0.0036	3.359	0.1057	0.1109
Ba4554	455.403 {	Y_3710	ppm	0.0971	0.0001	0.1404	0.097	0.0972
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	29.24	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	55.89	0.3717	0.6651	55.62	56.15
Ca3181	318.128 {1	In2306	ppm	56.35	0.0825	0.1464	56.3	56.41
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	11.89	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0.0008	0.0001	7.759	0.0008	0.0009
Cr2677	267.716 {1	Y_3600	ppm	0.0104	0	0.0223	0.0104	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0113	0.0001	1.17	0.0112	0.0114
Fe2404	240.488 {1	In2306	ppm	1.362	0.0047	0.3424	1.359	1.365
K_7664	766.490 {	Y_3710	ppm	5.537	0.0085	0.154	5.531	5.543
K_7698	769.896 {	Y_3710	ppm	5.457	0.0584	1.071	5.416	5.499
Li6707	670.784 {	Y_3710	ppm	0.0086	0.001	11.77	0.0079	0.0093
Mg2790	279.079 {1	Y_3710	ppm	6.763	0.0172	0.254	6.775	6.751
Mn2576	257.610 {1	Y_3600	ppm	0.0992	0.0001	0.1102	0.0991	0.0993
Mn2576-2	257.610 {1	Y_3710	ppm	0.0983	0	0.0311	0.0983	0.0983
Mo2020	202.030 {4	Y_2243	ppm	0.0119	0.0002	1.647	0.0117	0.012
Na5895	589.592 {	Y_3710	ppm	65.56	0.1235	0.1884	65.47	65.65
Na8183	818.326 {	Y_3710	ppm	67.23	0.0641	0.0953	67.28	67.19
Ni2316	231.604 {4	In2306	ppm	0.0068	0.0001	2.171	0.0069	0.0067
P_1782	178.284 {4	In2306	ppm	0.2336	0	0.0028	0.2336	0.2336
Pb2203	220.353 {4	In2306	ppm	0.0045	0.0005	10.31	0.0041	0.0048
S_1820	182.034 {4	Y_2243	ppm	-14060	82.95	0.5902	-14000	-14110
Sb2068	206.833 {4	Y_2243	ppm	0.0002	0.0008	496.7	-0.0004	0.0007
Se1960	196.090 {4	Y_2243	ppm	0.0017	0.0002	9.919	0.0018	0.0016
Si2516	251.611 {1	Y_3710	ppm	7.535	0.0059	0.0783	7.539	7.531
Sn1899	189.989 {4	In2306	ppm	0	0.0001	5518	0.0001	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0.2858	0.0002	0.0621	0.2857	0.2859
Ti3349	334.904 {1	Y_3600	ppm	0.01	0	0.0795	0.01	0.01
Tl1908	190.856 {4	In2306	ppm	-0.0474	0.0004	0.9027	-0.0471	-0.0477
V_2924	292.402 {1	Y_3600	ppm	0.01	0.0001	1.107	0.0099	0.01
Zn2062	206.200 {4	In2306	ppm	0.1064	0.0003	0.2532	0.1066	0.1062

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1003.5	6.0753	0.60539	1007.8	999.24
In2306	230.606 {4	Cts/S	13174	4.294	0.03259	13177	13171
Y_2243	224.306 {4	Cts/S	20529	31.621	0.15403	20551	20507
Y_3600	360.073 {	Cts/S	189440	527.46	0.27843	189820	189070
Y_3710	371.030 {	Cts/S	54178	362.59	0.66925	54435	53922

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60799-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:21:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0006	0.0001	9.462	0.0006	0.0005
Al3082	308.215 {1	In2306	ppm	1.433	0.0378	2.638	1.46	1.407
As1890	189.042 {4	Y_2243	ppm	0.0034	0.0002	5.346	0.0036	0.0033
B_2496	249.678 {1	Y_3710	ppm	0.0371	0.0064	17.16	0.0416	0.0326
Ba4554	455.403 {	Y_3710	ppm	0.048	0.0003	0.5547	0.0482	0.0479
Be3130	313.042 {1	Y_3710	ppm	0	0	2102	0	0
Ca3158	315.887 {1	In2306	ppm	32.16	0.6868	2.135	32.65	31.68
Ca3181	318.128 {1	In2306	ppm	32.59	0.7064	2.167	33.09	32.09
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0.0001	14.31	0.0004	0.0003
Co2286	228.616 {4	In2306	ppm	0.0006	0.0002	28.62	0.0008	0.0005
Cr2677	267.716 {1	Y_3600	ppm	0.0056	0.0002	3.47	0.0054	0.0057
Cu3247	324.754 {1	Y_3600	ppm	0.0093	0.0002	2.455	0.0091	0.0095
Fe2404	240.488 {1	In2306	ppm	1.111	0.0195	1.759	1.124	1.097
K_7664	766.490 {	Y_3710	ppm	2.091	0.0556	2.66	2.13	2.051
K_7698	769.896 {	Y_3710	ppm	2.002	0.0212	1.058	2.017	1.987
Li6707	670.784 {	Y_3710	ppm	0.0044	0.0001	1.77	0.0043	0.0044
Mg2790	279.079 {1	Y_3710	ppm	2.067	0.0332	1.608	2.09	2.043
Mn2576	257.610 {1	Y_3600	ppm	0.063	0.0002	0.3497	0.0631	0.0628
Mn2576-2	257.610 {1	Y_3710	ppm	0.0633	0.0011	1.794	0.0641	0.0625
Mo2020	202.030 {4	Y_2243	ppm	0.0142	0.0002	1.675	0.0144	0.014
Na5895	589.592 {	Y_3710	ppm	22.13	0.352	1.591	22.38	21.88
Na8183	818.326 {	Y_3710	ppm	22.23	0.2475	1.114	22.4	22.05
Ni2316	231.604 {4	In2306	ppm	0.0031	0.0002	7.14	0.0032	0.0029
P_1782	178.284 {4	In2306	ppm	0.144	0.0032	2.203	0.1463	0.1418
Pb2203	220.353 {4	In2306	ppm	0.0072	0.0008	11.48	0.0078	0.0066
S_1820	182.034 {4	Y_2243	ppm	-7040	109.7	1.559	-7118	-6962
Sb2068	206.833 {4	Y_2243	ppm	0.0016	0.0003	18.85	0.0018	0.0014
Se1960	196.090 {4	Y_2243	ppm	0.0011	0.0009	82.29	0.0005	0.0018
Si2516	251.611 {1	Y_3710	ppm	4.252	0.0921	2.166	4.317	4.186
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0001	45.57	0.0002	0.0001
Sr4215	421.552 {	Y_3710	ppm	0.1124	0.0016	1.465	0.1136	0.1113
Ti3349	334.904 {1	Y_3600	ppm	0.0122	0.0001	0.4285	0.0123	0.0122
Tl1908	190.856 {4	In2306	ppm	-0.0461	0.0007	1.62	-0.0456	-0.0466
V_2924	292.402 {1	Y_3600	ppm	0.0074	0.0003	4.401	0.0072	0.0077
Zn2062	206.200 {4	In2306	ppm	0.6951	0.0095	1.371	0.7019	0.6884

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1004.5	23.169	2.3064	988.15	1020.9
In2306	230.606 {4	Cts/S	14126	126.02	0.8921	14037	14215
Y_2243	224.306 {4	Cts/S	21411	230.22	1.0752	21248	21574
Y_3600	360.073 {	Cts/S	192990	394.69	0.20452	192710	193260
Y_3710	371.030 {	Cts/S	53347	1256.6	2.3555	52458	54235

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=PDS 600-60809-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:23:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.531	0.0024	0.4509	0.5293	0.5327
Al3082	308.215 {1	In2306	ppm	10.14	0.0756	0.7462	10.08	10.19
As1890	189.042 {4	Y_2243	ppm	1.089	0.0175	1.605	1.101	1.076
B_2496	249.678 {1	Y_3710	ppm	1.225	0.0008	0.0671	1.225	1.226
Ba4554	455.403 {	Y_3710	ppm	1.149	0.0042	0.362	1.146	1.152
Be3130	313.042 {1	Y_3710	ppm	0.4829	0.0009	0.1779	0.4823	0.4835
Ca3158	315.887 {1	In2306	ppm	154.1	1.598	1.037	153	155.3
Ca3181	318.128 {1	In2306	ppm	154.3	0.9443	0.612	153.6	155
Cd2288	228.802 {4	Y_2243	ppm	0.5191	0.0104	2.002	0.5265	0.5118
Co2286	228.616 {4	In2306	ppm	1.042	0.0215	2.067	1.057	1.027
Cr2677	267.716 {1	Y_3600	ppm	0.9722	0.0198	2.04	0.9582	0.9862
Cu3247	324.754 {1	Y_3600	ppm	1.041	0.0248	2.379	1.024	1.059
Fe2404	240.488 {1	In2306	ppm	9.909	0.0522	0.5264	9.872	9.946
K_7664	766.490 {	Y_3710	ppm	32.34	0.0545	0.1686	32.3	32.37
K_7698	769.896 {	Y_3710	ppm	32.55	0.213	0.6543	32.4	32.7
Li6707	670.784 {	Y_3710	ppm	1.02	0.0027	0.2673	1.018	1.022
Mg2790	279.079 {1	Y_3710	ppm	24.36	0.0397	0.1628	24.34	24.39
Mn2576	257.610 {1	Y_3600	ppm	1.007	0.0183	1.818	0.9945	1.02
Mn2576-2	257.610 {1	Y_3710	ppm	0.9822	0.0064	0.6536	0.9776	0.9867
Mo2020	202.030 {4	Y_2243	ppm	1.043	0.0238	2.283	1.06	1.026
Na5895	589.592 {	Y_3710	ppm	700.2	1.618	0.2311	699.1	701.4
Na8183	818.326 {	Y_3710	ppm	769.2	3.286	0.4273	766.9	771.5
Ni2316	231.604 {4	In2306	ppm	1.05	0.0217	2.065	1.065	1.035
P_1782	178.284 {4	In2306	ppm	1.752	0.0361	2.06	1.778	1.726
Pb2203	220.353 {4	In2306	ppm	1.005	0.0264	2.624	1.024	0.9863
S_1820	182.034 {4	Y_2243	ppm	-203300	3735	1.837	-206000	-200700
Sb2068	206.833 {4	Y_2243	ppm	1.019	0.0217	2.124	1.035	1.004
Se1960	196.090 {4	Y_2243	ppm	1.106	0.0209	1.891	1.121	1.091
Si2516	251.611 {1	Y_3710	ppm	15.18	0.0193	0.127	15.16	15.19
Sn1899	189.989 {4	In2306	ppm	1.041	0.0173	1.657	1.054	1.029
Sr4215	421.552 {	Y_3710	ppm	1.563	0.0076	0.4833	1.558	1.569
Ti3349	334.904 {1	Y_3600	ppm	1.017	0.0272	2.675	0.9979	1.036
Tl1908	190.856 {4	In2306	ppm	1.064	0.0449	4.219	1.096	1.033
V_2924	292.402 {1	Y_3600	ppm	1.015	0.0245	2.412	0.9976	1.032
Zn2062	206.200 {4	In2306	ppm	1.147	0.026	2.264	1.165	1.129

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	949.77	3.7543	0.39528	952.43	947.12
In2306	230.606 {4	Cts/S	10854	158.83	1.4633	10742	10967
Y_2243	224.306 {4	Cts/S	18965	288.02	1.5187	18761	19169
Y_3600	360.073 {	Cts/S	169030	2940.6	1.7397	171110	166950
Y_3710	371.030 {	Cts/S	52334	34.874	0.06664	52310	52359

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=SD 600-60809-c-1-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:26:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0009	0.0013	145.4	0	0.0018
Al3082	308.215 {1	In2306	ppm	0.0361	0.0021	5.683	0.0347	0.0376
As1890	189.042 {4	Y_2243	ppm	0.0052	0.0017	33.26	0.004	0.0065
B_2496	249.678 {1	Y_3710	ppm	0.0437	0.0017	3.934	0.0425	0.0449
Ba4554	455.403 {	Y_3710	ppm	0.0373	0.0015	4	0.0362	0.0383
Be3130	313.042 {1	Y_3710	ppm	0	0	73.27	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	29.14	1.185	4.065	28.3	29.97
Ca3181	318.128 {1	In2306	ppm	29.67	1.146	3.864	28.86	30.48
Cd2288	228.802 {4	Y_2243	ppm	0.0009	0.0011	131.1	0.0001	0.0017
Co2286	228.616 {4	In2306	ppm	0.0018	0.0027	148.8	-0.0001	0.0037
Cr2677	267.716 {1	Y_3600	ppm	0.0012	0.0004	30.65	0.0015	0.0009
Cu3247	324.754 {1	Y_3600	ppm	0.0017	0.0004	25.71	0.0014	0.0021
Fe2404	240.488 {1	In2306	ppm	0.0405	0.0016	3.917	0.0394	0.0416
K_7664	766.490 {	Y_3710	ppm	4.609	0.1973	4.28	4.47	4.749
K_7698	769.896 {	Y_3710	ppm	4.526	0.156	3.448	4.415	4.636
Li6707	670.784 {	Y_3710	ppm	0.0052	0.0003	5.567	0.0054	0.005
Mg2790	279.079 {1	Y_3710	ppm	3.172	0.123	3.878	3.085	3.259
Mn2576	257.610 {1	Y_3600	ppm	0.0099	0.0003	3.399	0.0102	0.0097
Mn2576-2	257.610 {1	Y_3710	ppm	0.0106	0.0001	1.053	0.0106	0.0105
Mo2020	202.030 {4	Y_2243	ppm	0.0223	0.0043	19.22	0.0193	0.0253
Na5895	589.592 {	Y_3710	ppm	146	4.817	3.3	142.6	149.4
Na8183	818.326 {	Y_3710	ppm	154.8	6.05	3.909	150.5	159
Ni2316	231.604 {4	In2306	ppm	0.0038	0.0027	72.78	0.0018	0.0057
P_1782	178.284 {4	In2306	ppm	0.0886	0.0074	8.37	0.0834	0.0939
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0013	199.1	-0.0003	0.0016
S_1820	182.034 {4	Y_2243	ppm	-42100	1196	2.841	-41260	-42950
Sb2068	206.833 {4	Y_2243	ppm	0.0042	0.0031	72.88	0.002	0.0064
Se1960	196.090 {4	Y_2243	ppm	0.0003	0.0018	657.8	-0.001	0.0015
Si2516	251.611 {1	Y_3710	ppm	2.964	0.1497	5.05	2.859	3.07
Sn1899	189.989 {4	In2306	ppm	0.0032	0.0036	111.4	0.0007	0.0058
Sr4215	421.552 {	Y_3710	ppm	0.2223	0.0098	4.427	0.2153	0.2292
Ti3349	334.904 {1	Y_3600	ppm	0.0005	0.0004	71.05	0.0003	0.0008
Tl1908	190.856 {4	In2306	ppm	-0.0023	0.0096	423.7	-0.0091	0.0045
V_2924	292.402 {1	Y_3600	ppm	0.0014	0	1.306	0.0014	0.0014
Zn2062	206.200 {4	In2306	ppm	0.0164	0.0031	18.96	0.0142	0.0185

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	991.32	28.053	2.8298	1011.2	971.49
In2306	230.606 {4	Cts/S	12792	272.33	2.129	12984	12599
Y_2243	224.306 {4	Cts/S	20400	421.12	2.0643	20698	20103
Y_3600	360.073 {	Cts/S	190770	6078.7	3.1863	186470	195070
Y_3710	371.030 {	Cts/S	52481	1622.7	3.0921	53628	51333

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:28:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.243	0.0026	1.074	0.2449	0.2412
Al3082	308.215 {1	In2306	ppm	2.477	0.0574	2.316	2.436	2.517
As1890	189.042 {4	Y_2243	ppm	0.4932	0.0055	1.12	0.4971	0.4893
B_2496	249.678 {1	Y_3710	ppm	0.4889	0.0072	1.465	0.4838	0.494
Ba4554	455.403 {	Y_3710	ppm	0.4928	0.0089	1.799	0.4865	0.499
Be3130	313.042 {1	Y_3710	ppm	0.5006	0.0089	1.769	0.4943	0.5068
Ca3158	315.887 {1	In2306	ppm	12.06	0.1792	1.487	11.93	12.18
Ca3181	318.128 {1	In2306	ppm	12.25	0.2822	2.304	12.05	12.45
Cd2288	228.802 {4	Y_2243	ppm	0.4894	0.0004	0.0758	0.4897	0.4892
Co2286	228.616 {4	In2306	ppm	0.4873	0.001	0.2112	0.488	0.4866
Cr2677	267.716 {1	Y_3600	ppm	0.4986	0.0044	0.8844	0.5017	0.4955
Cu3247	324.754 {1	Y_3600	ppm	0.4932	0.0003	0.0709	0.4934	0.4929
Fe2404	240.488 {1	In2306	ppm	2.462	0.0652	2.647	2.416	2.508
K_7664	766.490 {	Y_3710	ppm	12.57	0.18	1.432	12.45	12.7
K_7698	769.896 {	Y_3710	ppm	12.57	0.1687	1.342	12.45	12.69
Li6707	670.784 {	Y_3710	ppm	0.5003	0.006	1.199	0.496	0.5045
Mg2790	279.079 {1	Y_3710	ppm	4.947	0.0741	1.497	4.895	5
Mn2576	257.610 {1	Y_3600	ppm	0.4859	0.0008	0.17	0.4864	0.4853
Mn2576-2	257.610 {1	Y_3710	ppm	0.4886	0.0045	0.9118	0.4854	0.4917
Mo2020	202.030 {4	Y_2243	ppm	0.5	0.0019	0.3703	0.5013	0.4987
Na5895	589.592 {	Y_3710	ppm	12.66	0.1605	1.268	12.54	12.77
Na8183	818.326 {	Y_3710	ppm	12.94	0.1191	0.9203	12.86	13.03
Ni2316	231.604 {4	In2306	ppm	0.4867	0.0003	0.057	0.4865	0.4869
P_1782	178.284 {4	In2306	ppm	0.4931	0.0013	0.2551	0.494	0.4922
Pb2203	220.353 {4	In2306	ppm	0.4851	0.0011	0.2233	0.4843	0.4859
S_1820	182.034 {4	Y_2243	ppm	-627.1	2.185	0.3484	-628.6	-625.5
Sb2068	206.833 {4	Y_2243	ppm	0.4911	0.0004	0.0749	0.4914	0.4909
Se1960	196.090 {4	Y_2243	ppm	0.4902	0.0014	0.2803	0.4892	0.4911
Si2516	251.611 {1	Y_3710	ppm	0.9732	0.0246	2.53	0.9558	0.9906
Sn1899	189.989 {4	In2306	ppm	0.4884	0.0003	0.0544	0.4885	0.4882
Sr4215	421.552 {	Y_3710	ppm	0.2488	0.0037	1.502	0.2461	0.2514
Ti3349	334.904 {1	Y_3600	ppm	0.5053	0.0028	0.5482	0.5073	0.5034
Tl1908	190.856 {4	In2306	ppm	0.45	0.0429	9.531	0.4803	0.4197
V_2924	292.402 {1	Y_3600	ppm	0.5063	0.0027	0.5254	0.5082	0.5044
Zn2062	206.200 {4	In2306	ppm	0.482	0.0007	0.1509	0.4825	0.4815

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1009.4	17.729	1.7564	1022	996.88
In2306	230.606 {4	Cts/S	14110	6.1719	0.04374	14106	14115
Y_2243	224.306 {4	Cts/S	21508	29.792	0.13851	21487	21529
Y_3600	360.073 {	Cts/S	194460	440.66	0.22661	194150	194770
Y_3710	371.030 {	Cts/S	53142	611.17	1.1501	53574	52710

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:30:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0054	0.0003	5.991	0.0057	0.0052
Al3082	308.215 {1	In2306	ppm	0.1201	0.0003	0.2558	0.1199	0.1204
As1890	189.042 {4	Y_2243	ppm	0.0102	0.0023	22.72	0.0118	0.0085
B_2496	249.678 {1	Y_3710	ppm	-0.0061	0.002	32.13	-0.0075	-0.0047
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	1.237	0.01	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.7557	0.0049	0.005
Ca3158	315.887 {1	In2306	ppm	0.1058	0.0025	2.392	0.104	0.1076
Ca3181	318.128 {1	In2306	ppm	0.1195	0.0014	1.13	0.1186	0.1205
Cd2288	228.802 {4	Y_2243	ppm	0.0053	0.0003	5.254	0.0051	0.0055
Co2286	228.616 {4	In2306	ppm	0.0098	0.0002	2.408	0.0096	0.0099
Cr2677	267.716 {1	Y_3600	ppm	0.0101	0	0.061	0.0101	0.0101
Cu3247	324.754 {1	Y_3600	ppm	0.0081	0.0001	1.507	0.008	0.0082
Fe2404	240.488 {1	In2306	ppm	0.0961	0.0021	2.175	0.0976	0.0946
K_7664	766.490 {	Y_3710	ppm	0.6182	0.0186	3.009	0.6313	0.605
K_7698	769.896 {	Y_3710	ppm	0.4812	0.0243	5.043	0.4983	0.464
Li6707	670.784 {	Y_3710	ppm	0.0096	0.001	10.18	0.0089	0.0103
Mg2790	279.079 {1	Y_3710	ppm	0.1026	0.0003	0.3194	0.1024	0.1028
Mn2576	257.610 {1	Y_3600	ppm	0.0099	0.0001	1.254	0.0098	0.01
Mn2576-2	257.610 {1	Y_3710	ppm	0.0094	0.0003	3.066	0.0092	0.0096
Mo2020	202.030 {4	Y_2243	ppm	0.012	0.0006	4.726	0.0116	0.0124
Na5895	589.592 {	Y_3710	ppm	0.6854	0.0055	0.7973	0.6893	0.6816
Na8183	818.326 {	Y_3710	ppm	0.3832	0.1325	34.59	0.2895	0.4769
Ni2316	231.604 {4	In2306	ppm	0.0102	0.0002	1.635	0.0103	0.0101
P_1782	178.284 {4	In2306	ppm	0.0072	0.0001	0.8533	0.0072	0.0073
Pb2203	220.353 {4	In2306	ppm	0.0095	0	0.3401	0.0095	0.0096
S_1820	182.034 {4	Y_2243	ppm	-75.11	2.423	3.226	-76.82	-73.4
Sb2068	206.833 {4	Y_2243	ppm	0.013	0.0008	6.35	0.0124	0.0136
Se1960	196.090 {4	Y_2243	ppm	0.0089	0.0002	2.462	0.0087	0.009
Si2516	251.611 {1	Y_3710	ppm	0.0154	0.004	25.7	0.0126	0.0183
Sn1899	189.989 {4	In2306	ppm	0.0104	0.0003	2.689	0.0102	0.0106
Sr4215	421.552 {	Y_3710	ppm	0.005	0	0.838	0.005	0.005
Ti3349	334.904 {1	Y_3600	ppm	0.0103	0.0001	0.4915	0.0103	0.0103
Tl1908	190.856 {4	In2306	ppm	0.0571	0.0202	35.34	0.0428	0.0714
V_2924	292.402 {1	Y_3600	ppm	0.0101	0.0002	2.282	0.0099	0.0102
Zn2062	206.200 {4	In2306	ppm	0.0099	0.0003	2.749	0.0097	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1028.2	6.0337	0.58683	1023.9	1032.4
In2306	230.606 {4	Cts/S	14749	49.99	0.33894	14713	14784
Y_2243	224.306 {4	Cts/S	21671	75.323	0.34757	21618	21725
Y_3600	360.073 {	Cts/S	198540	240	0.12088	198370	198710
Y_3710	371.030 {	Cts/S	54085	204.6	0.3783	54230	53941

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:33:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0003	85.86	0.0005	0.0001
Al3082	308.215 {1	In2306	ppm	0.0159	0.0038	24.07	0.0186	0.0132
As1890	189.042 {4	Y_2243	ppm	0.0005	0.0005	97	0.0002	0.0009
B_2496	249.678 {1	Y_3710	ppm	-0.0164	0.0003	1.576	-0.0162	-0.0166
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	86.35	-0.0002	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	93.46	0	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0022	0.0001	4.083	0.0023	0.0022
Ca3181	318.128 {1	In2306	ppm	0.0128	0.0308	240.9	0.0345	-0.009
Cd2288	228.802 {4	Y_2243	ppm	0	0	151.2	0	0
Co2286	228.616 {4	In2306	ppm	-0.0001	0	59.99	0	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0002	105.3	0	0.0003
Cu3247	324.754 {1	Y_3600	ppm	-0.0025	0	1.371	-0.0025	-0.0024
Fe2404	240.488 {1	In2306	ppm	0.0008	0.0001	13.46	0.0008	0.0007
K_7664	766.490 {	Y_3710	ppm	-0.0001	0.0133	12800	0.0093	-0.0095
K_7698	769.896 {	Y_3710	ppm	-0.124	0.065	52.4	-0.1699	-0.0781
Li6707	670.784 {	Y_3710	ppm	-0.0008	0.0004	52.4	-0.0005	-0.0011
Mg2790	279.079 {1	Y_3710	ppm	-0.0069	0.0019	26.9	-0.0082	-0.0056
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	57.89	-0.0002	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0004	0.0003	83.74	-0.0002	-0.0006
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0002	122.2	0	0.0003
Na5895	589.592 {	Y_3710	ppm	0.0666	0.0019	2.786	0.0653	0.0679
Na8183	818.326 {	Y_3710	ppm	-0.0763	0.0339	44.4	-0.0523	-0.1002
Ni2316	231.604 {4	In2306	ppm	0.0001	0.0001	50.85	0.0002	0.0001
P_1782	178.284 {4	In2306	ppm	-0.0012	0.0003	27.35	-0.0015	-0.001
Pb2203	220.353 {4	In2306	ppm	0	0.0005	1370	0.0003	-0.0004
S_1820	182.034 {4	Y_2243	ppm	-67.51	2.565	3.8	-69.32	-65.7
Sb2068	206.833 {4	Y_2243	ppm	-0.0003	0.001	343.8	-0.001	0.0004
Se1960	196.090 {4	Y_2243	ppm	-0.001	0.0007	62.78	-0.0015	-0.0006
Si2516	251.611 {1	Y_3710	ppm	0.0001	0.0024	3385	-0.0016	0.0017
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0004	752.5	0.0004	-0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0	88.96	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0005	0.0001	11.31	-0.0005	-0.0006
Tl1908	190.856 {4	In2306	ppm	-0.0091	0.0083	91.12	-0.015	-0.0032
V_2924	292.402 {1	Y_3600	ppm	-0.0002	0.0001	28.07	-0.0002	-0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0002	0.0001	56.06	-0.0001	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1037.3	1.5336	0.14785	1036.2	1038.3
In2306	230.606 {4	Cts/S	14902	19.333	0.12974	14888	14915
Y_2243	224.306 {4	Cts/S	21795	51.55	0.23652	21759	21831
Y_3600	360.073 {	Cts/S	200230	2661.6	1.3292	202110	198350
Y_3710	371.030 {	Cts/S	54281	82.172	0.15138	54339	54223

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=mb 600-87895/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:35:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0	0.0005	1590	-0.0004	0.0003
Al3082	308.215 {1	In2306	ppm	0.0118	0.0058	48.86	0.0077	0.0159
As1890	189.042 {4	Y_2243	ppm	0	0.0017	5646	-0.0012	0.0011
B_2496	249.678 {1	Y_3710	ppm	-0.0121	0.0015	12.33	-0.0131	-0.011
Ba4554	455.403 {	Y_3710	ppm	0.0005	0.0001	12.06	0.0004	0.0005
Be3130	313.042 {1	Y_3710	ppm	0	0	582	0	0
Ca3158	315.887 {1	In2306	ppm	0.0099	0.0041	41.07	0.0128	0.0071
Ca3181	318.128 {1	In2306	ppm	0.0083	0.0046	56	0.005	0.0115
Cd2288	228.802 {4	Y_2243	ppm	0	0	119.2	0.0001	0
Co2286	228.616 {4	In2306	ppm	-0.0001	0.0001	111.7	0	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	4.828	0.0002	0.0002
Cu3247	324.754 {1	Y_3600	ppm	-0.0012	0.0002	18.89	-0.001	-0.0014
Fe2404	240.488 {1	In2306	ppm	0.003	0.0005	15.31	0.0027	0.0033
K_7664	766.490 {	Y_3710	ppm	0.0535	0.0099	18.51	0.0465	0.0606
K_7698	769.896 {	Y_3710	ppm	-0.0961	0.0405	42.15	-0.1247	-0.0674
Li6707	670.784 {	Y_3710	ppm	-0.001	0.0004	35.97	-0.0013	-0.0008
Mg2790	279.079 {1	Y_3710	ppm	0.0074	0.0007	8.962	0.0079	0.007
Mn2576	257.610 {1	Y_3600	ppm	0.0008	0	5.842	0.0009	0.0008
Mn2576-2	257.610 {1	Y_3710	ppm	0.0011	0	2.486	0.0011	0.0011
Mo2020	202.030 {4	Y_2243	ppm	0	0	100.3	0	-0.0001
Na5895	589.592 {	Y_3710	ppm	0.065	0.0036	5.593	0.0624	0.0676
Na8183	818.326 {	Y_3710	ppm	0.0419	0.0203	48.5	0.0562	0.0275
Ni2316	231.604 {4	In2306	ppm	0	0	97.19	-0.0001	0
P_1782	178.284 {4	In2306	ppm	-0.0017	0.001	55.72	-0.001	-0.0024
Pb2203	220.353 {4	In2306	ppm	-0.0003	0.0005	171.6	0.0001	-0.0006
S_1820	182.034 {4	Y_2243	ppm	-71.93	1.262	1.754	-72.82	-71.04
Sb2068	206.833 {4	Y_2243	ppm	0	0.0017	176800	-0.0012	0.0012
Se1960	196.090 {4	Y_2243	ppm	-0.0016	0	0.6174	-0.0016	-0.0016
Si2516	251.611 {1	Y_3710	ppm	0.0032	0.0056	178.5	-0.0008	0.0071
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0001	56.59	0.0001	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	158.9	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0	7.446	-0.0002	-0.0002
Tl1908	190.856 {4	In2306	ppm	-0.0271	0.0045	16.69	-0.0303	-0.0239
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0002	297.6	-0.0001	0.0002
Zn2062	206.200 {4	In2306	ppm	0.0061	0.0001	1.309	0.0062	0.006

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1030.9	2.445	0.23717	1029.2	1032.7
In2306	230.606 {4	Cts/S	14886	30.858	0.2073	14864	14907
Y_2243	224.306 {4	Cts/S	21750	68.128	0.31323	21702	21798
Y_3600	360.073 {	Cts/S	200100	628.69	0.31419	199650	200540
Y_3710	371.030 {	Cts/S	54792	272.66	0.49763	54599	54985

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=lcs 600-87895/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:38:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5015	0.0152	3.04	0.5123	0.4907
Al3082	308.215 {1	In2306	ppm	9.996	0.2775	2.776	10.19	9.8
As1890	189.042 {4	Y_2243	ppm	1.029	0.0014	0.1342	1.03	1.028
B_2496	249.678 {1	Y_3710	ppm	0.9876	0.0278	2.82	1.007	0.9679
Ba4554	455.403 {	Y_3710	ppm	1.01	0.0332	3.29	1.033	0.9864
Be3130	313.042 {1	Y_3710	ppm	0.5079	0.0152	2.995	0.5186	0.4971
Ca3158	315.887 {1	In2306	ppm	9.748	0.2168	2.224	9.901	9.594
Ca3181	318.128 {1	In2306	ppm	9.913	0.2509	2.531	10.09	9.735
Cd2288	228.802 {4	Y_2243	ppm	0.5113	0.0008	0.1639	0.5107	0.5119
Co2286	228.616 {4	In2306	ppm	1.025	0.0039	0.3843	1.023	1.028
Cr2677	267.716 {1	Y_3600	ppm	1.041	0.0196	1.884	1.054	1.027
Cu3247	324.754 {1	Y_3600	ppm	1.066	0.0268	2.518	1.085	1.047
Fe2404	240.488 {1	In2306	ppm	9.987	0.2756	2.76	10.18	9.792
K_7664	766.490 {	Y_3710	ppm	10.24	0.3114	3.042	10.46	10.02
K_7698	769.896 {	Y_3710	ppm	10.2	0.4074	3.996	10.48	9.908
Li6707	670.784 {	Y_3710	ppm	0.5119	0.0168	3.279	0.5237	0.5
Mg2790	279.079 {1	Y_3710	ppm	9.939	0.2784	2.801	10.14	9.742
Mn2576	257.610 {1	Y_3600	ppm	1.024	0.0262	2.56	1.042	1.005
Mn2576-2	257.610 {1	Y_3710	ppm	0.979	0.0307	3.135	1.001	0.9573
Mo2020	202.030 {4	Y_2243	ppm	1.036	0.0033	0.3213	1.038	1.034
Na5895	589.592 {	Y_3710	ppm	10.27	0.3421	3.33	10.52	10.03
Na8183	818.326 {	Y_3710	ppm	10.3	0.2205	2.14	10.46	10.15
Ni2316	231.604 {4	In2306	ppm	1.012	0.0039	0.3834	1.009	1.015
P_1782	178.284 {4	In2306	ppm	-0.0027	0.0007	24.5	-0.0022	-0.0031
Pb2203	220.353 {4	In2306	ppm	1.014	0.0026	0.259	1.012	1.016
S_1820	182.034 {4	Y_2243	ppm	-69.68	0.3904	0.5602	-69.96	-69.41
Sb2068	206.833 {4	Y_2243	ppm	1.018	0.0007	0.0702	1.018	1.019
Se1960	196.090 {4	Y_2243	ppm	1.022	0.0017	0.1688	1.023	1.021
Si2516	251.611 {1	Y_3710	ppm	0.963	0.0253	2.624	0.9808	0.9451
Sn1899	189.989 {4	In2306	ppm	1.008	0.0027	0.2663	1.006	1.01
Sr4215	421.552 {	Y_3710	ppm	0.5067	0.0171	3.37	0.5187	0.4946
Ti3349	334.904 {1	Y_3600	ppm	1.063	0.0291	2.742	1.084	1.042
Tl1908	190.856 {4	In2306	ppm	1.017	0.0999	9.824	1.088	0.9466
V_2924	292.402 {1	Y_3600	ppm	1.071	0.0246	2.293	1.088	1.054
Zn2062	206.200 {4	In2306	ppm	1.001	0.0033	0.3256	0.9985	1.003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1036.5	23.717	2.2881	1019.8	1053.3
In2306	230.606 {4	Cts/S	13941	58.862	0.42222	13983	13899
Y_2243	224.306 {4	Cts/S	21502	44.025	0.20475	21533	21471
Y_3600	360.073 {	Cts/S	192590	3966.7	2.0596	189790	195400
Y_3710	371.030 {	Cts/S	55228	1440.6	2.6085	54209	56247

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60760-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:40:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0005	0.0008	156.8	0.0001	-0.001
Al3082	308.215 {1	In2306	ppm	0.0132	0.0054	40.95	0.017	0.0094
As1890	189.042 {4	Y_2243	ppm	0.0046	0.0002	5.355	0.0044	0.0048
B_2496	249.678 {1	Y_3710	ppm	0.0423	0.0054	12.84	0.0462	0.0385
Ba4554	455.403 {	Y_3710	ppm	0.2148	0.0039	1.817	0.2175	0.212
Be3130	313.042 {1	Y_3710	ppm	0	0	1412	0	0
Ca3158	315.887 {1	In2306	ppm	46.7	0.4196	0.8986	46.99	46.4
Ca3181	318.128 {1	In2306	ppm	47.44	0.2945	0.6207	47.65	47.23
Cd2288	228.802 {4	Y_2243	ppm	0.0007	0.0006	80.15	0.0003	0.0011
Co2286	228.616 {4	In2306	ppm	0.0004	0.0014	317.1	-0.0005	0.0014
Cr2677	267.716 {1	Y_3600	ppm	0.0013	0	1.144	0.0013	0.0013
Cu3247	324.754 {1	Y_3600	ppm	-0.0001	0	16.77	-0.0001	-0.0002
Fe2404	240.488 {1	In2306	ppm	0.039	0.0006	1.581	0.0395	0.0386
K_7664	766.490 {	Y_3710	ppm	2.039	0.0493	2.416	2.074	2.004
K_7698	769.896 {	Y_3710	ppm	1.985	0.0291	1.466	2.006	1.964
Li6707	670.784 {	Y_3710	ppm	0.013	0	0.2045	0.013	0.013
Mg2790	279.079 {1	Y_3710	ppm	4.807	0.0589	1.225	4.849	4.766
Mn2576	257.610 {1	Y_3600	ppm	0.0018	0.0001	7.448	0.0019	0.0017
Mn2576-2	257.610 {1	Y_3710	ppm	0.0017	0.0002	12.18	0.0015	0.0018
Mo2020	202.030 {4	Y_2243	ppm	0.0047	0.0024	51.47	0.003	0.0065
Na5895	589.592 {	Y_3710	ppm	33.42	0.5729	1.714	33.83	33.02
Na8183	818.326 {	Y_3710	ppm	34.34	0.4895	1.426	34.68	33.99
Ni2316	231.604 {4	In2306	ppm	0.0003	0.0013	495	-0.0007	0.0012
P_1782	178.284 {4	In2306	ppm	0.0466	0.001	2.043	0.0459	0.0472
Pb2203	220.353 {4	In2306	ppm	0.0027	0.001	36.09	0.002	0.0034
S_1820	182.034 {4	Y_2243	ppm	-1454	0.5822	0.04	-1455	-1454
Sb2068	206.833 {4	Y_2243	ppm	0.0059	0.0017	28.68	0.0047	0.0071
Se1960	196.090 {4	Y_2243	ppm	0.0056	0.0008	14.72	0.005	0.0062
Si2516	251.611 {1	Y_3710	ppm	12.19	0.2306	1.892	12.35	12.03
Sn1899	189.989 {4	In2306	ppm	0.0022	0.0021	92.84	0.0008	0.0037
Sr4215	421.552 {	Y_3710	ppm	0.3078	0.0056	1.835	0.3118	0.3038
Ti3349	334.904 {1	Y_3600	ppm	0.0007	0.0002	23.24	0.0006	0.0008
Tl1908	190.856 {4	In2306	ppm	0.117	0.0393	33.61	0.0892	0.1448
V_2924	292.402 {1	Y_3600	ppm	0.0045	0.0002	3.697	0.0044	0.0046
Zn2062	206.200 {4	In2306	ppm	0.0271	0.0012	4.56	0.0262	0.028

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1009.4	7.2534	0.71859	1004.3	1014.5
In2306	230.606 {4	Cts/S	13666	39.07	0.28589	13694	13638
Y_2243	224.306 {4	Cts/S	21065	69.107	0.32807	21113	21016
Y_3600	360.073 {	Cts/S	191750	1582.8	0.82547	190630	192870
Y_3710	371.030 {	Cts/S	53328	740.14	1.3879	52805	53852

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60760-d-2-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:42:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0001	0.0015	1935	0.001	-0.0011
Al3082	308.215 {1	In2306	ppm	0.0191	0.0053	27.66	0.0154	0.0229
As1890	189.042 {4	Y_2243	ppm	0.0036	0.0005	12.62	0.0033	0.0039
B_2496	249.678 {1	Y_3710	ppm	0.0362	0.0045	12.44	0.0393	0.033
Ba4554	455.403 {	Y_3710	ppm	0.2152	0.0002	0.1	0.2154	0.2151
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	754.4	0	0
Ca3158	315.887 {1	In2306	ppm	46.98	0.1219	0.2594	47.07	46.9
Ca3181	318.128 {1	In2306	ppm	47.41	0.0939	0.198	47.34	47.47
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	1.383	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	-0.0004	0	7.231	-0.0004	-0.0004
Cr2677	267.716 {1	Y_3600	ppm	0.0016	0.0001	3.44	0.0015	0.0016
Cu3247	324.754 {1	Y_3600	ppm	0.0003	0	5.536	0.0004	0.0003
Fe2404	240.488 {1	In2306	ppm	0.0139	0.0064	46.11	0.0185	0.0094
K_7664	766.490 {	Y_3710	ppm	1.877	0.0177	0.9453	1.864	1.889
K_7698	769.896 {	Y_3710	ppm	1.818	0.0474	2.609	1.784	1.851
Li6707	670.784 {	Y_3710	ppm	0.0122	0.0004	3.396	0.0119	0.0125
Mg2790	279.079 {1	Y_3710	ppm	4.779	0.0004	0.0074	4.778	4.779
Mn2576	257.610 {1	Y_3600	ppm	0.0014	0.0001	9.756	0.0013	0.0015
Mn2576-2	257.610 {1	Y_3710	ppm	0.0011	0.0005	42.96	0.0014	0.0007
Mo2020	202.030 {4	Y_2243	ppm	0.0009	0.0001	8.078	0.0009	0.001
Na5895	589.592 {	Y_3710	ppm	32.82	0.0633	0.1929	32.78	32.87
Na8183	818.326 {	Y_3710	ppm	34	0.1426	0.4193	33.9	34.1
Ni2316	231.604 {4	In2306	ppm	-0.0007	0.0002	25.37	-0.0009	-0.0006
P_1782	178.284 {4	In2306	ppm	0.0434	0.001	2.306	0.0441	0.0427
Pb2203	220.353 {4	In2306	ppm	0.0008	0.0001	11.83	0.0008	0.0009
S_1820	182.034 {4	Y_2243	ppm	-1458	18.17	1.246	-1471	-1446
Sb2068	206.833 {4	Y_2243	ppm	-0.0012	0.0019	148.4	-0.0026	0.0001
Se1960	196.090 {4	Y_2243	ppm	0.0038	0.0007	18.25	0.0033	0.0042
Si2516	251.611 {1	Y_3710	ppm	12.06	0.0381	0.316	12.03	12.09
Sn1899	189.989 {4	In2306	ppm	0.0003	0.0003	120	0	0.0005
Sr4215	421.552 {	Y_3710	ppm	0.3065	0.0004	0.1433	0.3068	0.3062
Ti3349	334.904 {1	Y_3600	ppm	0.0002	0.0001	40.99	0.0001	0.0002
Tl1908	190.856 {4	In2306	ppm	0.0166	0.0169	101.7	0.0046	0.0285
V_2924	292.402 {1	Y_3600	ppm	0.0038	0.0001	2.935	0.0038	0.0039
Zn2062	206.200 {4	In2306	ppm	0.0469	0.0005	0.9746	0.0472	0.0466

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1018.9	1.3992	0.13732	1019.9	1017.9
In2306	230.606 {4	Cts/S	13707	114.82	0.83766	13626	13789
Y_2243	224.306 {4	Cts/S	21149	151.4	0.71585	21042	21256
Y_3600	360.073 {	Cts/S	193160	13412	6.9437	202640	183680
Y_3710	371.030 {	Cts/S	54474	87.007	0.15972	54535	54412

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60760-d-2-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:45:03
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5191	0.03	5.77	0.4979	0.5403
Al3082	308.215 {1	In2306	ppm	10.36	0.1024	0.9885	10.29	10.43
As1890	189.042 {4	Y_2243	ppm	1.041	0.0118	1.132	1.033	1.049
B_2496	249.678 {1	Y_3710	ppm	1.06	0.0155	1.464	1.049	1.071
Ba4554	455.403 {	Y_3710	ppm	1.236	0.0174	1.405	1.224	1.249
Be3130	313.042 {1	Y_3710	ppm	0.5186	0.0043	0.8312	0.5155	0.5216
Ca3158	315.887 {1	In2306	ppm	57.08	0.3381	0.5923	56.84	57.31
Ca3181	318.128 {1	In2306	ppm	57.71	0.0636	0.1102	57.67	57.76
Cd2288	228.802 {4	Y_2243	ppm	0.5122	0.0058	1.142	0.508	0.5163
Co2286	228.616 {4	In2306	ppm	1.035	0.0118	1.141	1.026	1.043
Cr2677	267.716 {1	Y_3600	ppm	1.049	0.0703	6.705	0.9988	1.098
Cu3247	324.754 {1	Y_3600	ppm	1.077	0.0667	6.194	1.03	1.124
Fe2404	240.488 {1	In2306	ppm	10.27	0.0312	0.304	10.25	10.29
K_7664	766.490 {	Y_3710	ppm	12.29	0.1719	1.399	12.17	12.41
K_7698	769.896 {	Y_3710	ppm	12.29	0.1288	1.048	12.2	12.38
Li6707	670.784 {	Y_3710	ppm	0.5289	0.0072	1.37	0.5238	0.534
Mg2790	279.079 {1	Y_3710	ppm	14.77	0.1257	0.8513	14.68	14.86
Mn2576	257.610 {1	Y_3600	ppm	1.029	0.0667	6.488	0.9813	1.076
Mn2576-2	257.610 {1	Y_3710	ppm	0.9874	0.0154	1.562	0.9765	0.9983
Mo2020	202.030 {4	Y_2243	ppm	1.037	0.012	1.16	1.028	1.045
Na5895	589.592 {	Y_3710	ppm	42.88	0.6112	1.425	42.45	43.31
Na8183	818.326 {	Y_3710	ppm	44.28	0.6656	1.503	43.81	44.75
Ni2316	231.604 {4	In2306	ppm	1.022	0.0112	1.099	1.014	1.03
P_1782	178.284 {4	In2306	ppm	0.0541	0.0005	0.8524	0.0545	0.0538
Pb2203	220.353 {4	In2306	ppm	1.019	0.0147	1.445	1.009	1.03
S_1820	182.034 {4	Y_2243	ppm	-1431	11.89	0.831	-1423	-1439
Sb2068	206.833 {4	Y_2243	ppm	1.027	0.0103	1.005	1.019	1.034
Se1960	196.090 {4	Y_2243	ppm	1.038	0.0118	1.133	1.03	1.047
Si2516	251.611 {1	Y_3710	ppm	12.96	0.0977	0.7542	12.89	13.03
Sn1899	189.989 {4	In2306	ppm	1.032	0.0112	1.088	1.024	1.04
Sr4215	421.552 {	Y_3710	ppm	0.8178	0.0113	1.379	0.8098	0.8258
Ti3349	334.904 {1	Y_3600	ppm	1.087	0.0707	6.507	1.037	1.137
Tl1908	190.856 {4	In2306	ppm	1.03	0.0779	7.556	1.086	0.9754
V_2924	292.402 {1	Y_3600	ppm	1.084	0.0698	6.436	1.035	1.134
Zn2062	206.200 {4	In2306	ppm	1.072	0.0133	1.243	1.063	1.082

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	992.3	1.2199	0.12294	993.17	991.44
In2306	230.606 {4	Cts/S	13140	134.65	1.0248	13235	13045
Y_2243	224.306 {4	Cts/S	20949	240.19	1.1465	21119	20779
Y_3600	360.073 {	Cts/S	183620	9016.1	4.9101	190000	177250
Y_3710	371.030 {	Cts/S	53743	226.43	0.42131	53903	53583

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60760-d-2-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:47:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.4866	0.006	1.232	0.4909	0.4824
Al3082	308.215 {1	In2306	ppm	9.963	0.0435	0.4368	9.994	9.932
As1890	189.042 {4	Y_2243	ppm	1.071	0.0272	2.534	1.052	1.091
B_2496	249.678 {1	Y_3710	ppm	1.018	0.0095	0.933	1.025	1.012
Ba4554	455.403 {	Y_3710	ppm	1.195	0.0074	0.6234	1.2	1.189
Be3130	313.042 {1	Y_3710	ppm	0.4995	0.0046	0.9202	0.5028	0.4963
Ca3158	315.887 {1	In2306	ppm	54.64	0.3919	0.7173	54.92	54.36
Ca3181	318.128 {1	In2306	ppm	55.33	0.47	0.8494	55.67	55
Cd2288	228.802 {4	Y_2243	ppm	0.5291	0.0163	3.073	0.5176	0.5406
Co2286	228.616 {4	In2306	ppm	1.071	0.0339	3.164	1.047	1.095
Cr2677	267.716 {1	Y_3600	ppm	1.005	0.0076	0.7596	1.01	0.9997
Cu3247	324.754 {1	Y_3600	ppm	1.029	0.0048	0.4637	1.032	1.025
Fe2404	240.488 {1	In2306	ppm	9.803	0.0459	0.4679	9.836	9.771
K_7664	766.490 {	Y_3710	ppm	11.9	0.1489	1.251	12	11.79
K_7698	769.896 {	Y_3710	ppm	11.9	0.0993	0.8346	11.97	11.83
Li6707	670.784 {	Y_3710	ppm	0.5132	0.0037	0.7232	0.5158	0.5106
Mg2790	279.079 {1	Y_3710	ppm	14.23	0.0946	0.6648	14.3	14.17
Mn2576	257.610 {1	Y_3600	ppm	0.9833	0.0102	1.042	0.9905	0.976
Mn2576-2	257.610 {1	Y_3710	ppm	0.9508	0.0061	0.6457	0.9551	0.9465
Mo2020	202.030 {4	Y_2243	ppm	1.07	0.0307	2.874	1.048	1.091
Na5895	589.592 {	Y_3710	ppm	41.65	0.2181	0.5237	41.81	41.5
Na8183	818.326 {	Y_3710	ppm	42.93	0.1999	0.4656	43.08	42.79
Ni2316	231.604 {4	In2306	ppm	1.057	0.0339	3.202	1.033	1.081
P_1782	178.284 {4	In2306	ppm	0.0561	0.001	1.828	0.0554	0.0568
Pb2203	220.353 {4	In2306	ppm	1.052	0.0315	2.995	1.03	1.075
S_1820	182.034 {4	Y_2243	ppm	-1476	41.48	2.81	-1447	-1505
Sb2068	206.833 {4	Y_2243	ppm	1.063	0.0312	2.936	1.041	1.085
Se1960	196.090 {4	Y_2243	ppm	1.063	0.0285	2.682	1.043	1.083
Si2516	251.611 {1	Y_3710	ppm	12.56	0.0845	0.6726	12.62	12.5
Sn1899	189.989 {4	In2306	ppm	1.065	0.0353	3.318	1.04	1.09
Sr4215	421.552 {	Y_3710	ppm	0.7923	0.0058	0.726	0.7963	0.7882
Ti3349	334.904 {1	Y_3600	ppm	1.041	0.003	0.2901	1.043	1.038
Tl1908	190.856 {4	In2306	ppm	1.234	0.0029	0.2319	1.232	1.236
V_2924	292.402 {1	Y_3600	ppm	1.041	0.0048	0.4596	1.045	1.038
Zn2062	206.200 {4	In2306	ppm	1.09	0.0342	3.135	1.066	1.114

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1030.2	2.1412	0.20785	1028.7	1031.7
In2306	230.606 {4	Cts/S	12817	335.82	2.6201	13055	12580
Y_2243	224.306 {4	Cts/S	20485	492.05	2.402	20833	20137
Y_3600	360.073 {	Cts/S	190270	1216.1	0.63911	189410	191130
Y_3710	371.030 {	Cts/S	55406	241.43	0.43575	55236	55577

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60766-a-12-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:49:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0032	0.0009	27.09	0.0026	0.0038
Al3082	308.215 {1	In2306	ppm	0.0185	0.0114	61.71	0.0104	0.0265
As1890	189.042 {4	Y_2243	ppm	0.0005	0.0011	200.4	-0.0002	0.0013
B_2496	249.678 {1	Y_3710	ppm	1.326	0.0562	4.239	1.365	1.286
Ba4554	455.403 {	Y_3710	ppm	0.0033	0.0003	9.771	0.0035	0.003
Be3130	313.042 {1	Y_3710	ppm	0	0	15.49	0	0
Ca3158	315.887 {1	In2306	ppm	0.6114	0.0271	4.425	0.6306	0.5923
Ca3181	318.128 {1	In2306	ppm	0.6254	0.0403	6.45	0.6539	0.5969
Cd2288	228.802 {4	Y_2243	ppm	0.0006	0.0005	80.56	0.0003	0.0009
Co2286	228.616 {4	In2306	ppm	0.0008	0.0011	140.7	0	0.0015
Cr2677	267.716 {1	Y_3600	ppm	0.0063	0.0004	7.112	0.006	0.0066
Cu3247	324.754 {1	Y_3600	ppm	0.0003	0	11.86	0.0003	0.0002
Fe2404	240.488 {1	In2306	ppm	0.1826	0.0057	3.124	0.1866	0.1786
K_7664	766.490 {	Y_3710	ppm	0.8821	0.0061	0.6932	0.8864	0.8777
K_7698	769.896 {	Y_3710	ppm	0.7591	0.0048	0.6373	0.7557	0.7625
Li6707	670.784 {	Y_3710	ppm	-0.0007	0	7.101	-0.0007	-0.0006
Mg2790	279.079 {1	Y_3710	ppm	0.1422	0.0292	20.54	0.1629	0.1216
Mn2576	257.610 {1	Y_3600	ppm	0.0292	0.0025	8.44	0.0274	0.0309
Mn2576-2	257.610 {1	Y_3710	ppm	0.0297	0.0014	4.778	0.0307	0.0287
Mo2020	202.030 {4	Y_2243	ppm	0.0067	0.002	29.82	0.0052	0.0081
Na5895	589.592 {	Y_3710	ppm	14.87	0.4922	3.31	15.22	14.52
Na8183	818.326 {	Y_3710	ppm	14.94	0.5438	3.641	15.32	14.55
Ni2316	231.604 {4	In2306	ppm	0.0059	0.0008	14.36	0.0053	0.0065
P_1782	178.284 {4	In2306	ppm	0.0243	0.001	4.174	0.0251	0.0236
Pb2203	220.353 {4	In2306	ppm	0.0008	0.0003	36.68	0.0006	0.001
S_1820	182.034 {4	Y_2243	ppm	-17210	155	0.9005	-17320	-17100
Sb2068	206.833 {4	Y_2243	ppm	0.0075	0.0023	31.26	0.0058	0.0091
Se1960	196.090 {4	Y_2243	ppm	0.0171	0.0007	4.139	0.0166	0.0176
Si2516	251.611 {1	Y_3710	ppm	1.46	0.0421	2.886	1.49	1.43
Sn1899	189.989 {4	In2306	ppm	0.0023	0.0013	57.02	0.0014	0.0033
Sr4215	421.552 {	Y_3710	ppm	0.0034	0.0001	3.471	0.0035	0.0033
Ti3349	334.904 {1	Y_3600	ppm	0.0001	0.0001	135	0	0.0002
Tl1908	190.856 {4	In2306	ppm	0.1541	0.0567	36.76	0.1141	0.1942
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	313.2	0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.0329	0.0006	1.887	0.0325	0.0334

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.6	37.531	3.5623	1027	1080.1
In2306	230.606 {4	Cts/S	14742	96.994	0.65792	14674	14811
Y_2243	224.306 {4	Cts/S	21541	129.03	0.599	21450	21632
Y_3600	360.073 {	Cts/S	203990	12849	6.2988	213080	194910
Y_3710	371.030 {	Cts/S	55287	2192.7	3.9661	53736	56837

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60781-c-8-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:51:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0008	0.0011	147.7	0.0016	0
Al3082	308.215 {1	In2306	ppm	0.098	0.0152	15.51	0.1087	0.0872
As1890	189.042 {4	Y_2243	ppm	0.019	0.0014	7.274	0.02	0.018
B_2496	249.678 {1	Y_3710	ppm	0.2072	0.0138	6.67	0.217	0.1974
Ba4554	455.403 {	Y_3710	ppm	0.1375	0.006	4.374	0.1417	0.1332
Be3130	313.042 {1	Y_3710	ppm	0	0	95.06	-0.0001	0
Ca3158	315.887 {1	In2306	ppm	103.6	5.785	5.582	107.7	99.55
Ca3181	318.128 {1	In2306	ppm	104.1	5.986	5.748	108.4	99.92
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0	5.888	0.0003	0.0004
Co2286	228.616 {4	In2306	ppm	0.0002	0	15.4	0.0002	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.014	0.0008	5.509	0.0145	0.0135
Cu3247	324.754 {1	Y_3600	ppm	0.0155	0.0004	2.416	0.0157	0.0152
Fe2404	240.488 {1	In2306	ppm	0.2134	0.0169	7.924	0.2254	0.2015
K_7664	766.490 {	Y_3710	ppm	17.04	0.7749	4.546	17.59	16.5
K_7698	769.896 {	Y_3710	ppm	17.02	0.7293	4.285	17.53	16.5
Li6707	670.784 {	Y_3710	ppm	0.0216	0.0009	3.966	0.0222	0.021
Mg2790	279.079 {1	Y_3710	ppm	11.16	0.602	5.396	11.58	10.73
Mn2576	257.610 {1	Y_3600	ppm	0.0253	0.0015	5.755	0.0263	0.0242
Mn2576-2	257.610 {1	Y_3710	ppm	0.0228	0.0007	2.98	0.0232	0.0223
Mo2020	202.030 {4	Y_2243	ppm	0.0089	0.0001	1.579	0.0089	0.0088
Na5895	589.592 {	Y_3710	ppm	361.4	16.4	4.539	373	349.8
Na8183	818.326 {	Y_3710	ppm	372.6	16.07	4.312	384	361.2
Ni2316	231.604 {4	In2306	ppm	0.0088	0.0002	2.158	0.009	0.0087
P_1782	178.284 {4	In2306	ppm	1.813	0.0766	4.225	1.868	1.759
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0005	72.05	0.0003	0.0011
S_1820	182.034 {4	Y_2243	ppm	-106400	4087	3.84	-109300	-103500
Sb2068	206.833 {4	Y_2243	ppm	0.0005	0.0025	481.5	-0.0012	0.0023
Se1960	196.090 {4	Y_2243	ppm	0.0009	0.001	113.9	0.0002	0.0016
Si2516	251.611 {1	Y_3710	ppm	10.22	0.4816	4.714	10.56	9.876
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0003	205.1	-0.0001	0.0003
Sr4215	421.552 {	Y_3710	ppm	0.8266	0.0349	4.224	0.8513	0.8019
Ti3349	334.904 {1	Y_3600	ppm	0.0015	0.0001	7.47	0.0015	0.0014
Tl1908	190.856 {4	In2306	ppm	0.0451	0.0185	41.01	0.032	0.0582
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0004	4.214	0.0102	0.0096
Zn2062	206.200 {4	In2306	ppm	0.1121	0.0038	3.371	0.1148	0.1094

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1042.7	51.304	4.9203	1006.4	1079
In2306	230.606 {4	Cts/S	11779	331.07	2.8107	11545	12013
Y_2243	224.306 {4	Cts/S	19523	579.18	2.9667	19113	19932
Y_3600	360.073 {	Cts/S	174650	6980.2	3.9967	169720	179590
Y_3710	371.030 {	Cts/S	57430	2397.2	4.174	55735	59125

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60781-d-10-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:54:07
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0	0.0011	5626	0.0008	-0.0008
Al3082	308.215 {1	In2306	ppm	0.5508	0.0245	4.446	0.5681	0.5334
As1890	189.042 {4	Y_2243	ppm	0.0077	0	0.5599	0.0077	0.0077
B_2496	249.678 {1	Y_3710	ppm	0.0283	0.0021	7.562	0.0298	0.0268
Ba4554	455.403 {	Y_3710	ppm	0.0292	0.0014	4.619	0.0302	0.0283
Be3130	313.042 {1	Y_3710	ppm	0	0	177.6	0	0
Ca3158	315.887 {1	In2306	ppm	23.57	0.8857	3.757	24.2	22.95
Ca3181	318.128 {1	In2306	ppm	24.08	0.9705	4.03	24.77	23.39
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	16.05	0.0003	0.0002
Co2286	228.616 {4	In2306	ppm	0.0004	0.0001	21.99	0.0004	0.0005
Cr2677	267.716 {1	Y_3600	ppm	0.0045	0.0002	3.887	0.0046	0.0043
Cu3247	324.754 {1	Y_3600	ppm	0.0238	0.0005	2.283	0.0242	0.0234
Fe2404	240.488 {1	In2306	ppm	0.3548	0.0136	3.835	0.3644	0.3451
K_7664	766.490 {	Y_3710	ppm	2.746	0.0951	3.463	2.813	2.678
K_7698	769.896 {	Y_3710	ppm	2.557	0.1122	4.388	2.637	2.478
Li6707	670.784 {	Y_3710	ppm	0.0018	0.0006	32.86	0.0022	0.0013
Mg2790	279.079 {1	Y_3710	ppm	1.876	0.0919	4.9	1.941	1.811
Mn2576	257.610 {1	Y_3600	ppm	0.0304	0.0006	1.974	0.0308	0.0299
Mn2576-2	257.610 {1	Y_3710	ppm	0.0295	0.0015	4.966	0.0305	0.0285
Mo2020	202.030 {4	Y_2243	ppm	0.0313	0.0002	0.7402	0.0312	0.0315
Na5895	589.592 {	Y_3710	ppm	9.157	0.3873	4.229	9.431	8.883
Na8183	818.326 {	Y_3710	ppm	9.003	0.3397	3.773	9.244	8.763
Ni2316	231.604 {4	In2306	ppm	0.0036	0	0.528	0.0036	0.0036
P_1782	178.284 {4	In2306	ppm	0.6457	0.0051	0.7883	0.6421	0.6493
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0011	151.5	0.0015	-0.0001
S_1820	182.034 {4	Y_2243	ppm	-4438	60.54	1.364	-4395	-4481
Sb2068	206.833 {4	Y_2243	ppm	0.0028	0.0011	38.56	0.002	0.0035
Se1960	196.090 {4	Y_2243	ppm	0	0.0006	1214	-0.0004	0.0005
Si2516	251.611 {1	Y_3710	ppm	3.132	0.1374	4.386	3.229	3.035
Sn1899	189.989 {4	In2306	ppm	0.0002	0	16.31	0.0002	0.0002
Sr4215	421.552 {	Y_3710	ppm	0.0583	0.0025	4.31	0.06	0.0565
Ti3349	334.904 {1	Y_3600	ppm	0.0155	0.0003	2.038	0.0153	0.0157
Tl1908	190.856 {4	In2306	ppm	-0.0087	0.0113	130.9	-0.0167	-0.0006
V_2924	292.402 {1	Y_3600	ppm	0.0244	0.001	4.253	0.0251	0.0237
Zn2062	206.200 {4	In2306	ppm	0.1154	0.0013	1.111	0.1145	0.1163

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1110	36.862	3.3208	1084	1136.1
In2306	230.606 {4	Cts/S	14299	85.347	0.59685	14360	14239
Y_2243	224.306 {4	Cts/S	21144	79.433	0.37568	21200	21087
Y_3600	360.073 {	Cts/S	199080	3425	1.7205	196650	201500
Y_3710	371.030 {	Cts/S	59631	2002.3	3.3577	58215	61047

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60783-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:56:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0006	0.0004	77.39	-0.0009	-0.0003
Al3082	308.215 {1	In2306	ppm	0.3076	0.0008	0.2648	0.3071	0.3082
As1890	189.042 {4	Y_2243	ppm	0.0126	0.0005	3.903	0.0123	0.013
B_2496	249.678 {1	Y_3710	ppm	0.3031	0.0011	0.37	0.3039	0.3023
Ba4554	455.403 {	Y_3710	ppm	0.1491	0.0005	0.31	0.1494	0.1487
Be3130	313.042 {1	Y_3710	ppm	0	0	51.37	0	0
Ca3158	315.887 {1	In2306	ppm	86.01	0.2023	0.2352	85.87	86.16
Ca3181	318.128 {1	In2306	ppm	86.85	0.1105	0.1272	86.77	86.93
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	15.41	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0.0002	0	2.626	0.0002	0.0002
Cr2677	267.716 {1	Y_3600	ppm	0.0037	0	0.3012	0.0037	0.0037
Cu3247	324.754 {1	Y_3600	ppm	0.007	0.0006	7.983	0.0074	0.0066
Fe2404	240.488 {1	In2306	ppm	0.1507	0.0027	1.758	0.1489	0.1526
K_7664	766.490 {	Y_3710	ppm	343.4	1.733	0.5047	344.6	342.2
K_7698	769.896 {	Y_3710	ppm	346.5	0.9338	0.2695	347.2	345.9
Li6707	670.784 {	Y_3710	ppm	0.0212	0.0003	1.572	0.021	0.0215
Mg2790	279.079 {1	Y_3710	ppm	10.41	0.0407	0.3908	10.38	10.44
Mn2576	257.610 {1	Y_3600	ppm	0.0274	0.0001	0.5416	0.0275	0.0273
Mn2576-2	257.610 {1	Y_3710	ppm	0.027	0.0004	1.578	0.0273	0.0266
Mo2020	202.030 {4	Y_2243	ppm	0.0303	0.0001	0.2606	0.0303	0.0304
Na5895	589.592 {	Y_3710	ppm	123.1	0.3273	0.2659	123.3	122.8
Na8183	818.326 {	Y_3710	ppm	126.1	0.2586	0.2051	126.2	125.9
Ni2316	231.604 {4	In2306	ppm	0.0063	0.0001	0.995	0.0063	0.0063
P_1782	178.284 {4	In2306	ppm	1.93	0.003	0.155	1.932	1.928
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0001	58.01	0.0004	0.0001
S_1820	182.034 {4	Y_2243	ppm	-33700	31.93	0.0947	-33730	-33680
Sb2068	206.833 {4	Y_2243	ppm	-0.0006	0.0009	162.3	-0.0012	0.0001
Se1960	196.090 {4	Y_2243	ppm	0.0002	0.0011	673	0.001	-0.0006
Si2516	251.611 {1	Y_3710	ppm	9.475	0.0153	0.1612	9.464	9.485
Sn1899	189.989 {4	In2306	ppm	0.0003	0	12.43	0.0003	0.0002
Sr4215	421.552 {	Y_3710	ppm	0.7464	0.0001	0.0098	0.7463	0.7464
Ti3349	334.904 {1	Y_3600	ppm	0.0016	0.0005	29.29	0.002	0.0013
Tl1908	190.856 {4	In2306	ppm	-0.0312	0.0046	14.77	-0.0345	-0.028
V_2924	292.402 {1	Y_3600	ppm	0.0072	0.0004	5.535	0.0069	0.0074
Zn2062	206.200 {4	In2306	ppm	0.038	0.0002	0.4142	0.0379	0.0381

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1024.7	0.37229	0.03633	1024.4	1025
In2306	230.606 {4	Cts/S	11883	7.4638	0.06281	11877	11888
Y_2243	224.306 {4	Cts/S	19568	2.4209	0.01237	19566	19570
Y_3600	360.073 {	Cts/S	181600	66.963	0.03687	181650	181550
Y_3710	371.030 {	Cts/S	56131	263.74	0.46987	56318	55945

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 16:58:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2424	0.0014	0.5729	0.2433	0.2414
Al3082	308.215 {1	In2306	ppm	2.437	0.0183	0.7517	2.424	2.45
As1890	189.042 {4	Y_2243	ppm	0.496	0.0036	0.7218	0.4935	0.4985
B_2496	249.678 {1	Y_3710	ppm	0.4601	0.0007	0.1479	0.4597	0.4606
Ba4554	455.403 {	Y_3710	ppm	0.4864	0.0027	0.5522	0.4845	0.4883
Be3130	313.042 {1	Y_3710	ppm	0.4811	0.002	0.4254	0.4796	0.4825
Ca3158	315.887 {1	In2306	ppm	11.56	0.0388	0.3356	11.59	11.54
Ca3181	318.128 {1	In2306	ppm	11.69	0.0502	0.4295	11.72	11.65
Cd2288	228.802 {4	Y_2243	ppm	0.4904	0.0006	0.1262	0.4908	0.49
Co2286	228.616 {4	In2306	ppm	0.4816	0.0001	0.0129	0.4816	0.4816
Cr2677	267.716 {1	Y_3600	ppm	0.4908	0.0085	1.723	0.4968	0.4848
Cu3247	324.754 {1	Y_3600	ppm	0.5092	0.0077	1.52	0.5146	0.5037
Fe2404	240.488 {1	In2306	ppm	2.382	0.0025	0.1064	2.384	2.38
K_7664	766.490 {	Y_3710	ppm	12.48	0.0258	0.207	12.46	12.5
K_7698	769.896 {	Y_3710	ppm	12.5	0.0627	0.5013	12.45	12.54
Li6707	670.784 {	Y_3710	ppm	0.5011	0.002	0.4071	0.4997	0.5026
Mg2790	279.079 {1	Y_3710	ppm	4.608	0.012	0.2595	4.599	4.616
Mn2576	257.610 {1	Y_3600	ppm	0.4793	0.0027	0.5606	0.4812	0.4774
Mn2576-2	257.610 {1	Y_3710	ppm	0.4643	0.0037	0.7924	0.4617	0.4669
Mo2020	202.030 {4	Y_2243	ppm	0.497	0.0024	0.4923	0.4988	0.4953
Na5895	589.592 {	Y_3710	ppm	12.41	0.0133	0.1073	12.41	12.42
Na8183	818.326 {	Y_3710	ppm	12.45	0.0569	0.4573	12.49	12.41
Ni2316	231.604 {4	In2306	ppm	0.4759	0.0003	0.0657	0.4761	0.4756
P_1782	178.284 {4	In2306	ppm	0.4941	0.0018	0.3692	0.4928	0.4954
Pb2203	220.353 {4	In2306	ppm	0.4747	0.0024	0.5113	0.473	0.4764
S_1820	182.034 {4	Y_2243	ppm	-590.5	6.394	1.083	-586	-595.1
Sb2068	206.833 {4	Y_2243	ppm	0.5001	0.0005	0.0963	0.5005	0.4998
Se1960	196.090 {4	Y_2243	ppm	0.4958	0.0003	0.064	0.4961	0.4956
Si2516	251.611 {1	Y_3710	ppm	0.9267	0.0176	1.903	0.9143	0.9392
Sn1899	189.989 {4	In2306	ppm	0.4748	0.0005	0.1045	0.4744	0.4751
Sr4215	421.552 {	Y_3710	ppm	0.2452	0.0013	0.5211	0.2443	0.2461
Ti3349	334.904 {1	Y_3600	ppm	0.5087	0.0081	1.597	0.5145	0.503
Tl1908	190.856 {4	In2306	ppm	0.4261	0.0512	12.01	0.4623	0.3899
V_2924	292.402 {1	Y_3600	ppm	0.5086	0.0075	1.468	0.5139	0.5034
Zn2062	206.200 {4	In2306	ppm	0.4576	0.001	0.2179	0.4569	0.4583

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1071.2	1.6795	0.15678	1070	1072.4
In2306	230.606 {4	Cts/S	14174	5.549	0.03915	14170	14178
Y_2243	224.306 {4	Cts/S	21434	35.356	0.16495	21409	21459
Y_3600	360.073 {	Cts/S	194850	1961.1	1.0065	193460	196240
Y_3710	371.030 {	Cts/S	57802	371.63	0.64293	58065	57539

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:01:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0048	0.0004	7.607	0.0051	0.0045
Al3082	308.215 {1	In2306	ppm	0.1108	0.0104	9.377	0.1181	0.1034
As1890	189.042 {4	Y_2243	ppm	0.0106	0.0004	3.847	0.0103	0.0109
B_2496	249.678 {1	Y_3710	ppm	-0.007	0.0016	23.65	-0.0058	-0.0081
Ba4554	455.403 {	Y_3710	ppm	0.0102	0.0004	3.902	0.0105	0.0099
Be3130	313.042 {1	Y_3710	ppm	0.005	0.0002	3.377	0.0051	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1017	0.0019	1.821	0.1031	0.1004
Ca3181	318.128 {1	In2306	ppm	0.1063	0.0295	27.76	0.1272	0.0854
Cd2288	228.802 {4	Y_2243	ppm	0.0054	0	0.1428	0.0054	0.0054
Co2286	228.616 {4	In2306	ppm	0.01	0.0001	1.435	0.0101	0.0099
Cr2677	267.716 {1	Y_3600	ppm	0.0096	0.0001	1.389	0.0097	0.0095
Cu3247	324.754 {1	Y_3600	ppm	0.0078	0.0003	3.914	0.008	0.0076
Fe2404	240.488 {1	In2306	ppm	0.0981	0.0013	1.344	0.099	0.0972
K_7664	766.490 {	Y_3710	ppm	0.6924	0.0486	7.019	0.7268	0.6581
K_7698	769.896 {	Y_3710	ppm	0.5377	0.0903	16.8	0.6016	0.4738
Li6707	670.784 {	Y_3710	ppm	0.0101	0.0007	6.537	0.0106	0.0096
Mg2790	279.079 {1	Y_3710	ppm	0.0997	0.0015	1.457	0.0987	0.1008
Mn2576	257.610 {1	Y_3600	ppm	0.0095	0.0003	2.779	0.0097	0.0093
Mn2576-2	257.610 {1	Y_3710	ppm	0.0095	0.0001	0.5412	0.0094	0.0095
Mo2020	202.030 {4	Y_2243	ppm	0.0119	0.0004	3.191	0.0116	0.0122
Na5895	589.592 {	Y_3710	ppm	0.6509	0.0305	4.69	0.6724	0.6293
Na8183	818.326 {	Y_3710	ppm	0.44	0.1222	27.76	0.3536	0.5264
Ni2316	231.604 {4	In2306	ppm	0.01	0	0.1695	0.0099	0.01
P_1782	178.284 {4	In2306	ppm	0.0064	0.0002	3.714	0.0065	0.0062
Pb2203	220.353 {4	In2306	ppm	0.0092	0.0003	3.24	0.0094	0.009
S_1820	182.034 {4	Y_2243	ppm	-40.77	1.218	2.987	-41.63	-39.91
Sb2068	206.833 {4	Y_2243	ppm	0.0128	0.0013	10.45	0.0137	0.0118
Se1960	196.090 {4	Y_2243	ppm	0.0094	0.0018	19.31	0.0107	0.0082
Si2516	251.611 {1	Y_3710	ppm	0.0131	0.0039	30.16	0.0159	0.0103
Sn1899	189.989 {4	In2306	ppm	0.0099	0.0003	2.794	0.0097	0.0101
Sr4215	421.552 {	Y_3710	ppm	0.0052	0.0002	4.329	0.0053	0.005
Ti3349	334.904 {1	Y_3600	ppm	0.0096	0.0005	4.843	0.0099	0.0092
Tl1908	190.856 {4	In2306	ppm	0.0457	0.0157	34.31	0.0346	0.0568
V_2924	292.402 {1	Y_3600	ppm	0.0096	0	0.3965	0.0096	0.0096
Zn2062	206.200 {4	In2306	ppm	0.0093	0	0.3692	0.0093	0.0093

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1065.1	29.143	2.7362	1044.5	1085.7
In2306	230.606 {4	Cts/S	14819	294.01	1.984	14611	15027
Y_2243	224.306 {4	Cts/S	21451	396.09	1.8465	21171	21731
Y_3600	360.073 {	Cts/S	207910	4392.3	2.1126	204810	211020
Y_3710	371.030 {	Cts/S	56739	2119.2	3.735	55241	58238

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:03:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0008	0.0014	187.3	0.0002	-0.0018
Al3082	308.215 {1	In2306	ppm	0.0165	0.0067	40.69	0.0117	0.0212
As1890	189.042 {4	Y_2243	ppm	0.0007	0.0002	24.51	0.0009	0.0006
B_2496	249.678 {1	Y_3710	ppm	-0.023	0.0002	0.7812	-0.0231	-0.0228
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0.0001	30.5	-0.0002	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	67.25	0	0
Ca3158	315.887 {1	In2306	ppm	0.0003	0.0079	2774	0.0058	-0.0053
Ca3181	318.128 {1	In2306	ppm	0.0121	0.0127	105	0.0211	0.0031
Cd2288	228.802 {4	Y_2243	ppm	0	0	49.62	0	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	186.3	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0	0.0001	1316	-0.0001	0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.0018	0.0001	3.684	-0.0018	-0.0017
Fe2404	240.488 {1	In2306	ppm	0.0004	0.0003	73.5	0.0002	0.0006
K_7664	766.490 {	Y_3710	ppm	0.056	0.02	35.66	0.0701	0.0418
K_7698	769.896 {	Y_3710	ppm	-0.1512	0.0011	0.7382	-0.152	-0.1504
Li6707	670.784 {	Y_3710	ppm	-0.0014	0.0011	78.06	-0.0006	-0.0021
Mg2790	279.079 {1	Y_3710	ppm	0.0063	0.0002	3.451	0.0062	0.0065
Mn2576	257.610 {1	Y_3600	ppm	0	0	195.7	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0008	0.0005	65.06	-0.0004	-0.0012
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0	23.57	0.0001	0.0002
Na5895	589.592 {	Y_3710	ppm	0.0204	0.0007	3.588	0.0209	0.0198
Na8183	818.326 {	Y_3710	ppm	-0.0792	0.0459	57.96	-0.1116	-0.0467
Ni2316	231.604 {4	In2306	ppm	-0.0001	0	41.78	-0.0001	-0.0001
P_1782	178.284 {4	In2306	ppm	-0.0019	0.0008	41.96	-0.0025	-0.0013
Pb2203	220.353 {4	In2306	ppm	-0.0003	0	3.625	-0.0003	-0.0003
S_1820	182.034 {4	Y_2243	ppm	-37.85	0.6677	1.764	-38.32	-37.38
Sb2068	206.833 {4	Y_2243	ppm	-0.0003	0.0003	93.81	-0.0005	-0.0001
Se1960	196.090 {4	Y_2243	ppm	-0.0006	0	8.03	-0.0006	-0.0005
Si2516	251.611 {1	Y_3710	ppm	-0.0011	0.0019	171.7	-0.0024	0.0002
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0002	119.2	0	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	179.6	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0003	0.0001	42.28	-0.0002	-0.0003
Tl1908	190.856 {4	In2306	ppm	-0.0137	0.0069	50.8	-0.0186	-0.0088
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0.0002	197.3	0	-0.0002
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	6.999	-0.0003	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1085.2	0.63176	0.05822	1084.8	1085.6
In2306	230.606 {4	Cts/S	15033	63.797	0.42438	15078	14988
Y_2243	224.306 {4	Cts/S	21669	93.548	0.43171	21735	21603
Y_3600	360.073 {	Cts/S	202210	3354.2	1.6588	204580	199840
Y_3710	371.030 {	Cts/S	58115	391.53	0.67372	57838	58392

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60794-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:05:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0008	0.0006	77.9	0.0012	0.0003
Al3082	308.215 {1	In2306	ppm	0.5788	0.0403	6.967	0.5503	0.6073
As1890	189.042 {4	Y_2243	ppm	0.0037	0.0005	12.2	0.0034	0.0041
B_2496	249.678 {1	Y_3710	ppm	0.0211	0.0066	31.16	0.0164	0.0257
Ba4554	455.403 {	Y_3710	ppm	0.0348	0.0021	6.144	0.0333	0.0363
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	48.9	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	31.91	1.961	6.146	30.52	33.3
Ca3181	318.128 {1	In2306	ppm	32.48	1.835	5.65	31.18	33.78
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	10.08	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	0.0003	0	6.48	0.0003	0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0057	0.0008	14.32	0.0063	0.0051
Cu3247	324.754 {1	Y_3600	ppm	0.0203	0.0015	7.372	0.0213	0.0192
Fe2404	240.488 {1	In2306	ppm	0.6312	0.0361	5.712	0.6057	0.6567
K_7664	766.490 {	Y_3710	ppm	1.829	0.0891	4.869	1.766	1.892
K_7698	769.896 {	Y_3710	ppm	1.658	0.11	6.631	1.581	1.736
Li6707	670.784 {	Y_3710	ppm	0.0019	0.0002	8.428	0.002	0.0017
Mg2790	279.079 {1	Y_3710	ppm	1.524	0.0904	5.931	1.46	1.588
Mn2576	257.610 {1	Y_3600	ppm	0.0589	0.005	8.417	0.0624	0.0554
Mn2576-2	257.610 {1	Y_3710	ppm	0.0603	0.0024	3.928	0.0586	0.062
Mo2020	202.030 {4	Y_2243	ppm	0.0059	0.0003	5.193	0.0061	0.0057
Na5895	589.592 {	Y_3710	ppm	59.26	3.513	5.928	56.78	61.75
Na8183	818.326 {	Y_3710	ppm	60.01	3.252	5.418	57.71	62.31
Ni2316	231.604 {4	In2306	ppm	0.0025	0.0001	3.115	0.0025	0.0024
P_1782	178.284 {4	In2306	ppm	0.135	0.0032	2.366	0.1372	0.1327
Pb2203	220.353 {4	In2306	ppm	0.007	0.0006	7.99	0.0066	0.0074
S_1820	182.034 {4	Y_2243	ppm	-3665	120.8	3.296	-3750	-3579
Sb2068	206.833 {4	Y_2243	ppm	0.0008	0.0007	85.5	0.0003	0.0013
Se1960	196.090 {4	Y_2243	ppm	0.0006	0.0004	66.82	0.0008	0.0003
Si2516	251.611 {1	Y_3710	ppm	1.602	0.0772	4.817	1.548	1.657
Sn1899	189.989 {4	In2306	ppm	0.0004	0.0002	62.64	0.0002	0.0005
Sr4215	421.552 {	Y_3710	ppm	0.0935	0.0057	6.095	0.0895	0.0975
Ti3349	334.904 {1	Y_3600	ppm	0.0098	0.001	10.69	0.0105	0.009
Tl1908	190.856 {4	In2306	ppm	-0.0325	0.0041	12.7	-0.0354	-0.0296
V_2924	292.402 {1	Y_3600	ppm	0.0075	0.0002	2.655	0.0076	0.0073
Zn2062	206.200 {4	In2306	ppm	0.2304	0.0084	3.641	0.2363	0.2245

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1069.7	51.553	4.8194	1106.2	1033.2
In2306	230.606 {4	Cts/S	13523	304.48	2.2517	13307	13738
Y_2243	224.306 {4	Cts/S	20710	495.35	2.3919	20360	21060
Y_3600	360.073 {	Cts/S	202470	14145	6.9862	192470	212480
Y_3710	371.030 {	Cts/S	57888	2441.9	4.2183	59615	56162

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60801-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:08:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0007	289.3	-0.0007	0.0002
Al3082	308.215 {1	In2306	ppm	1.455	0.0116	0.7956	1.447	1.463
As1890	189.042 {4	Y_2243	ppm	0.0047	0.0004	9.074	0.005	0.0044
B_2496	249.678 {1	Y_3710	ppm	0.0757	0.0008	1.051	0.0751	0.0762
Ba4554	455.403 {	Y_3710	ppm	0.0871	0.0017	1.966	0.0859	0.0883
Be3130	313.042 {1	Y_3710	ppm	0.0002	0	6.49	0.0002	0.0002
Ca3158	315.887 {1	In2306	ppm	75.77	0.8048	1.062	75.2	76.34
Ca3181	318.128 {1	In2306	ppm	77.19	0.8688	1.125	76.58	77.81
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0	5.947	0.0004	0.0005
Co2286	228.616 {4	In2306	ppm	0.0011	0.0001	8.529	0.001	0.0011
Cr2677	267.716 {1	Y_3600	ppm	0.0086	0.0001	1.623	0.0087	0.0085
Cu3247	324.754 {1	Y_3600	ppm	0.0315	0.0009	2.836	0.0309	0.0322
Fe2404	240.488 {1	In2306	ppm	1.1	0.0189	1.717	1.087	1.113
K_7664	766.490 {	Y_3710	ppm	2.123	0.0092	0.4315	2.117	2.13
K_7698	769.896 {	Y_3710	ppm	1.974	0.032	1.619	1.952	1.997
Li6707	670.784 {	Y_3710	ppm	0.006	0.0005	8.591	0.0057	0.0064
Mg2790	279.079 {1	Y_3710	ppm	3.97	0.0517	1.303	3.934	4.007
Mn2576	257.610 {1	Y_3600	ppm	0.1255	0.0017	1.357	0.1243	0.1267
Mn2576-2	257.610 {1	Y_3710	ppm	0.1281	0.0014	1.103	0.1271	0.1291
Mo2020	202.030 {4	Y_2243	ppm	0.0125	0.0003	2	0.0123	0.0127
Na5895	589.592 {	Y_3710	ppm	30.68	0.2021	0.6589	30.53	30.82
Na8183	818.326 {	Y_3710	ppm	30.97	0.5129	1.656	30.6	31.33
Ni2316	231.604 {4	In2306	ppm	0.0046	0.0002	4.091	0.0048	0.0045
P_1782	178.284 {4	In2306	ppm	0.164	0.0008	0.5008	0.1646	0.1635
Pb2203	220.353 {4	In2306	ppm	0.0285	0.0002	0.7607	0.0287	0.0284
S_1820	182.034 {4	Y_2243	ppm	-8711	31.54	0.3621	-8733	-8688
Sb2068	206.833 {4	Y_2243	ppm	-0.0005	0.0015	274.9	-0.0016	0.0005
Se1960	196.090 {4	Y_2243	ppm	0	0.0009	4867	-0.0006	0.0006
Si2516	251.611 {1	Y_3710	ppm	4.735	0.0979	2.068	4.666	4.804
Sn1899	189.989 {4	In2306	ppm	0	0.0001	1296	0	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0.2005	0.0024	1.172	0.1989	0.2022
Ti3349	334.904 {1	Y_3600	ppm	0.0273	0.0005	1.886	0.0276	0.0269
Tl1908	190.856 {4	In2306	ppm	-0.0402	0.0003	0.8516	-0.0404	-0.0399
V_2924	292.402 {1	Y_3600	ppm	0.0108	0.0002	2.083	0.0106	0.011
Zn2062	206.200 {4	In2306	ppm	0.3196	0.0028	0.8636	0.3215	0.3176

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1055.6	10.037	0.95076	1062.7	1048.5
In2306	230.606 {4	Cts/S	13338	20.987	0.15735	13323	13353
Y_2243	224.306 {4	Cts/S	20386	8.2846	0.04064	20380	20392
Y_3600	360.073 {	Cts/S	197230	2004.1	1.0161	198650	195810
Y_3710	371.030 {	Cts/S	57084	554.25	0.97093	57476	56692

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=600-60803-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:10:40
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0008	0.0003	40.06	-0.0006	-0.001
Al3082	308.215 {1	In2306	ppm	1.141	0.0464	4.07	1.108	1.174
As1890	189.042 {4	Y_2243	ppm	0.0053	0.002	37.48	0.0067	0.0039
B_2496	249.678 {1	Y_3710	ppm	0.1398	0.0011	0.7607	0.1391	0.1406
Ba4554	455.403 {	Y_3710	ppm	0.1043	0.0022	2.128	0.1027	0.1059
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	58.98	0.0001	0
Ca3158	315.887 {1	In2306	ppm	84.51	1.757	2.08	83.27	85.75
Ca3181	318.128 {1	In2306	ppm	86.04	1.392	1.618	85.06	87.03
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0.0001	18.54	0.0005	0.0004
Co2286	228.616 {4	In2306	ppm	0.0007	0.0001	19.16	0.0008	0.0006
Cr2677	267.716 {1	Y_3600	ppm	0.0089	0.0002	2.198	0.009	0.0087
Cu3247	324.754 {1	Y_3600	ppm	0.065	0.0015	2.382	0.0661	0.0639
Fe2404	240.488 {1	In2306	ppm	0.9567	0.0152	1.594	0.9459	0.9674
K_7664	766.490 {	Y_3710	ppm	3.123	0.0663	2.122	3.077	3.17
K_7698	769.896 {	Y_3710	ppm	2.917	0.1343	4.605	2.822	3.012
Li6707	670.784 {	Y_3710	ppm	0.0083	0.0007	7.932	0.0078	0.0087
Mg2790	279.079 {1	Y_3710	ppm	7.244	0.1066	1.472	7.168	7.319
Mn2576	257.610 {1	Y_3600	ppm	0.177	0.0039	2.209	0.1797	0.1742
Mn2576-2	257.610 {1	Y_3710	ppm	0.1756	0.0059	3.381	0.1714	0.1798
Mo2020	202.030 {4	Y_2243	ppm	0.035	0.0002	0.5706	0.0348	0.0351
Na5895	589.592 {	Y_3710	ppm	37.28	0.9346	2.507	36.62	37.94
Na8183	818.326 {	Y_3710	ppm	37.81	0.8997	2.38	37.17	38.45
Ni2316	231.604 {4	In2306	ppm	0.0043	0.0001	2.775	0.0044	0.0042
P_1782	178.284 {4	In2306	ppm	0.188	0.0035	1.841	0.1904	0.1855
Pb2203	220.353 {4	In2306	ppm	0.0154	0.0004	2.91	0.0151	0.0157
S_1820	182.034 {4	Y_2243	ppm	-13310	71.04	0.5336	-13360	-13260
Sb2068	206.833 {4	Y_2243	ppm	0.0003	0.0001	35.23	0.0004	0.0002
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0004	408.6	-0.0002	0.0004
Si2516	251.611 {1	Y_3710	ppm	6.37	0.1242	1.95	6.282	6.458
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0001	44.34	-0.0002	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0.3004	0.0068	2.266	0.2956	0.3052
Ti3349	334.904 {1	Y_3600	ppm	0.0216	0.0007	3.181	0.0221	0.0211
Tl1908	190.856 {4	In2306	ppm	-0.0433	0.0003	0.6139	-0.0435	-0.0431
V_2924	292.402 {1	Y_3600	ppm	0.0096	0.0003	3.484	0.0098	0.0094
Zn2062	206.200 {4	In2306	ppm	0.3075	0.0031	1.017	0.3097	0.3053

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1044.2	12.934	1.2387	1053.3	1035
In2306	230.606 {4	Cts/S	13172	88.367	0.67085	13110	13235
Y_2243	224.306 {4	Cts/S	20229	98.322	0.48603	20160	20299
Y_3600	360.073 {	Cts/S	191580	3157.3	1.6481	189340	193810
Y_3710	371.030 {	Cts/S	56679	650.82	1.1483	57139	56218

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=PDS 600-60760-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:13:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.4696	0.0031	0.6623	0.4718	0.4674
Al3082	308.215 {1	In2306	ppm	9.9	0.0673	0.6797	9.853	9.948
As1890	189.042 {4	Y_2243	ppm	1.002	0.0149	1.484	0.9919	1.013
B_2496	249.678 {1	Y_3710	ppm	0.9924	0.0017	0.1688	0.9936	0.9912
Ba4554	455.403 {	Y_3710	ppm	1.199	0.0084	0.7032	1.193	1.205
Be3130	313.042 {1	Y_3710	ppm	0.4792	0.0004	0.0809	0.479	0.4795
Ca3158	315.887 {1	In2306	ppm	53.59	0.2143	0.3999	53.74	53.44
Ca3181	318.128 {1	In2306	ppm	54.93	0.0729	0.1328	54.98	54.87
Cd2288	228.802 {4	Y_2243	ppm	0.4932	0.0027	0.539	0.4913	0.4951
Co2286	228.616 {4	In2306	ppm	0.9695	0.0077	0.7901	0.964	0.9749
Cr2677	267.716 {1	Y_3600	ppm	0.9326	0.0007	0.0777	0.9331	0.9321
Cu3247	324.754 {1	Y_3600	ppm	0.9969	0.0061	0.6119	1.001	0.9926
Fe2404	240.488 {1	In2306	ppm	9.519	0.0211	0.2222	9.504	9.534
K_7664	766.490 {	Y_3710	ppm	11.86	0.0716	0.6034	11.81	11.91
K_7698	769.896 {	Y_3710	ppm	11.71	0.1495	1.277	11.6	11.82
Li6707	670.784 {	Y_3710	ppm	1.035	0.014	1.356	1.025	1.045
Mg2790	279.079 {1	Y_3710	ppm	13.44	0.0919	0.6837	13.5	13.37
Mn2576	257.610 {1	Y_3600	ppm	0.908	0.005	0.5538	0.9116	0.9044
Mn2576-2	257.610 {1	Y_3710	ppm	0.9044	0.0046	0.5068	0.9076	0.9012
Mo2020	202.030 {4	Y_2243	ppm	0.9626	0.0057	0.5948	0.9585	0.9666
Na5895	589.592 {	Y_3710	ppm	42.62	0.4051	0.9506	42.33	42.9
Na8183	818.326 {	Y_3710	ppm	43.15	0.2828	0.6553	42.95	43.35
Ni2316	231.604 {4	In2306	ppm	0.9605	0.007	0.7284	0.9556	0.9655
P_1782	178.284 {4	In2306	ppm	1.078	0.0051	0.4717	1.074	1.081
Pb2203	220.353 {4	In2306	ppm	0.9648	0.0037	0.3837	0.9622	0.9674
S_1820	182.034 {4	Y_2243	ppm	-1403	6.823	0.4864	-1398	-1408
Sb2068	206.833 {4	Y_2243	ppm	0.9966	0.0031	0.3146	0.9944	0.9988
Se1960	196.090 {4	Y_2243	ppm	1.003	0.0043	0.4264	1	1.006
Si2516	251.611 {1	Y_3710	ppm	12.55	0.0141	0.1123	12.56	12.54
Sn1899	189.989 {4	In2306	ppm	0.9529	0.0078	0.816	0.9474	0.9584
Sr4215	421.552 {	Y_3710	ppm	0.7922	0.005	0.626	0.7887	0.7957
Ti3349	334.904 {1	Y_3600	ppm	0.9801	0.0008	0.0782	0.9806	0.9795
Tl1908	190.856 {4	In2306	ppm	1.063	0.0368	3.46	1.089	1.037
V_2924	292.402 {1	Y_3600	ppm	0.9734	0.0025	0.2568	0.9752	0.9717
Zn2062	206.200 {4	In2306	ppm	0.9604	0.0092	0.9556	0.9539	0.9669

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.1	4.2349	0.40212	1050.1	1056.1
In2306	230.606 {4	Cts/S	13207	87.491	0.66246	13269	13145
Y_2243	224.306 {4	Cts/S	20876	131.12	0.62813	20968	20783
Y_3600	360.073 {	Cts/S	195060	91.7	0.04701	195120	194990
Y_3710	371.030 {	Cts/S	57765	489.99	0.84825	57418	58111

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=SD 600-60760-d-2-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:15:07
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0001	0.0001	121.1	0.0001	0
Al3082	308.215 {1	In2306	ppm	0.0079	0.0043	54.73	0.0049	0.011
As1890	189.042 {4	Y_2243	ppm	0.0014	0.0007	48.48	0.0019	0.0009
B_2496	249.678 {1	Y_3710	ppm	-0.0088	0.0024	26.9	-0.0105	-0.0071
Ba4554	455.403 {	Y_3710	ppm	0.0403	0.002	5.022	0.0389	0.0418
Be3130	313.042 {1	Y_3710	ppm	0	0	125.9	0	0
Ca3158	315.887 {1	In2306	ppm	8.446	0.378	4.475	8.179	8.714
Ca3181	318.128 {1	In2306	ppm	8.652	0.4012	4.637	8.369	8.936
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0.0003	90.93	0.0001	0.0005
Co2286	228.616 {4	In2306	ppm	0.0004	0.0007	181.2	-0.0001	0.0009
Cr2677	267.716 {1	Y_3600	ppm	0.0004	0.0003	62.44	0.0002	0.0006
Cu3247	324.754 {1	Y_3600	ppm	-0.0018	0.0003	16.96	-0.002	-0.0016
Fe2404	240.488 {1	In2306	ppm	0.0084	0.0025	30.18	0.0066	0.0102
K_7664	766.490 {	Y_3710	ppm	0.3715	0.0027	0.7205	0.3696	0.3734
K_7698	769.896 {	Y_3710	ppm	0.1839	0.0273	14.82	0.1646	0.2032
Li6707	670.784 {	Y_3710	ppm	0.0014	0.0001	7.502	0.0014	0.0013
Mg2790	279.079 {1	Y_3710	ppm	0.8637	0.0464	5.372	0.8309	0.8966
Mn2576	257.610 {1	Y_3600	ppm	0.0003	0	4.861	0.0003	0.0003
Mn2576-2	257.610 {1	Y_3710	ppm	0.0005	0.0002	45.83	0.0007	0.0004
Mo2020	202.030 {4	Y_2243	ppm	0.0032	0.0012	39.34	0.0023	0.0041
Na5895	589.592 {	Y_3710	ppm	6.117	0.3201	5.233	5.89	6.343
Na8183	818.326 {	Y_3710	ppm	6.16	0.4683	7.603	5.829	6.491
Ni2316	231.604 {4	In2306	ppm	0.0004	0.0009	205.8	-0.0002	0.0011
P_1782	178.284 {4	In2306	ppm	0.0064	0.0012	18.65	0.0055	0.0072
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0012	303.6	-0.0004	0.0012
S_1820	182.034 {4	Y_2243	ppm	-306.1	2.768	0.9043	-308	-304.1
Sb2068	206.833 {4	Y_2243	ppm	0.0039	0.0009	22.31	0.0033	0.0046
Se1960	196.090 {4	Y_2243	ppm	0	0.0006	1317	0.0005	-0.0004
Si2516	251.611 {1	Y_3710	ppm	2.206	0.1293	5.861	2.115	2.298
Sn1899	189.989 {4	In2306	ppm	0.0011	0.0013	113.4	0.0002	0.002
Sr4215	421.552 {	Y_3710	ppm	0.0575	0.0028	4.911	0.0555	0.0595
Ti3349	334.904 {1	Y_3600	ppm	0.0003	0.0001	47.96	0.0002	0.0004
Tl1908	190.856 {4	In2306	ppm	0.0278	0.0175	63	0.0154	0.0402
V_2924	292.402 {1	Y_3600	ppm	0.0012	0.0003	26.63	0.0014	0.001
Zn2062	206.200 {4	In2306	ppm	0.0098	0.0005	4.985	0.0094	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1131.7	41.855	3.6984	1161.3	1102.1
In2306	230.606 {4	Cts/S	14513	64.804	0.44653	14467	14559
Y_2243	224.306 {4	Cts/S	21341	130.48	0.61141	21249	21433
Y_3600	360.073 {	Cts/S	200390	634.69	0.31672	200840	199950
Y_3710	371.030 {	Cts/S	60601	2340.1	3.8615	62256	58946

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:17:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2354	0.0016	0.6895	0.2342	0.2365
Al3082	308.215 {1	In2306	ppm	2.433	0.0055	0.2265	2.429	2.437
As1890	189.042 {4	Y_2243	ppm	0.4985	0.0027	0.5424	0.4966	0.5004
B_2496	249.678 {1	Y_3710	ppm	0.4673	0.0036	0.761	0.4698	0.4648
Ba4554	455.403 {	Y_3710	ppm	0.49	0.0018	0.3767	0.4913	0.4887
Be3130	313.042 {1	Y_3710	ppm	0.4863	0.0013	0.2672	0.4872	0.4854
Ca3158	315.887 {1	In2306	ppm	11.49	0.044	0.383	11.46	11.52
Ca3181	318.128 {1	In2306	ppm	11.83	0.1162	0.982	11.75	11.91
Cd2288	228.802 {4	Y_2243	ppm	0.4933	0.003	0.607	0.4911	0.4954
Co2286	228.616 {4	In2306	ppm	0.4874	0.0031	0.6321	0.4852	0.4896
Cr2677	267.716 {1	Y_3600	ppm	0.4827	0.0049	1.012	0.4792	0.4861
Cu3247	324.754 {1	Y_3600	ppm	0.498	0.0061	1.223	0.4937	0.5023
Fe2404	240.488 {1	In2306	ppm	2.397	0.0125	0.5208	2.388	2.405
K_7664	766.490 {	Y_3710	ppm	12.47	0.0886	0.71	12.53	12.41
K_7698	769.896 {	Y_3710	ppm	12.41	0.0919	0.7405	12.47	12.34
Li6707	670.784 {	Y_3710	ppm	0.5047	0.0066	1.307	0.5094	0.5
Mg2790	279.079 {1	Y_3710	ppm	4.651	0.0293	0.6305	4.672	4.63
Mn2576	257.610 {1	Y_3600	ppm	0.4679	0.003	0.6493	0.4658	0.4701
Mn2576-2	257.610 {1	Y_3710	ppm	0.4619	0.0009	0.198	0.4625	0.4612
Mo2020	202.030 {4	Y_2243	ppm	0.5	0.0027	0.5404	0.4981	0.5019
Na5895	589.592 {	Y_3710	ppm	12.43	0.1353	1.088	12.53	12.33
Na8183	818.326 {	Y_3710	ppm	12.62	0.053	0.4199	12.58	12.65
Ni2316	231.604 {4	In2306	ppm	0.4796	0.0013	0.2789	0.4786	0.4805
P_1782	178.284 {4	In2306	ppm	0.4954	0.0006	0.1128	0.495	0.4958
Pb2203	220.353 {4	In2306	ppm	0.4781	0.0027	0.5706	0.4762	0.4801
S_1820	182.034 {4	Y_2243	ppm	-577.4	2.856	0.4947	-575.3	-579.4
Sb2068	206.833 {4	Y_2243	ppm	0.5016	0.0014	0.2865	0.5006	0.5026
Se1960	196.090 {4	Y_2243	ppm	0.4964	0.004	0.7976	0.4936	0.4992
Si2516	251.611 {1	Y_3710	ppm	0.9278	0.0022	0.2419	0.9262	0.9294
Sn1899	189.989 {4	In2306	ppm	0.4804	0.0029	0.6064	0.4784	0.4825
Sr4215	421.552 {	Y_3710	ppm	0.2466	0.0013	0.5079	0.2475	0.2457
Ti3349	334.904 {1	Y_3600	ppm	0.5018	0.0091	1.82	0.4954	0.5083
Tl1908	190.856 {4	In2306	ppm	0.4748	0.0403	8.49	0.5034	0.4463
V_2924	292.402 {1	Y_3600	ppm	0.5019	0.01	1.99	0.4948	0.5089
Zn2062	206.200 {4	In2306	ppm	0.4641	0.0022	0.4745	0.4625	0.4656

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1067.1	6.7117	0.62897	1071.8	1062.3
In2306	230.606 {4	Cts/S	14054	100.25	0.7133	14125	13983
Y_2243	224.306 {4	Cts/S	21335	141.48	0.66313	21435	21235
Y_3600	360.073 {	Cts/S	197500	2151.7	1.0895	199020	195980
Y_3710	371.030 {	Cts/S	57204	17.363	0.03035	57216	57191

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:19:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0052	0	0.5301	0.0052	0.0052
Al3082	308.215 {1	In2306	ppm	0.1118	0.0056	4.977	0.1157	0.1079
As1890	189.042 {4	Y_2243	ppm	0.0104	0	0.0114	0.0104	0.0104
B_2496	249.678 {1	Y_3710	ppm	-0.0085	0.0015	17.82	-0.0074	-0.0095
Ba4554	455.403 {	Y_3710	ppm	0.0104	0.0006	5.891	0.0109	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0051	0.0004	7.402	0.0054	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1058	0.0043	4.105	0.1028	0.1089
Ca3181	318.128 {1	In2306	ppm	0.1203	0.0162	13.51	0.1318	0.1088
Cd2288	228.802 {4	Y_2243	ppm	0.0054	0.0005	9.154	0.005	0.0057
Co2286	228.616 {4	In2306	ppm	0.01	0.0006	6.051	0.0095	0.0104
Cr2677	267.716 {1	Y_3600	ppm	0.0099	0.0003	2.674	0.0097	0.0101
Cu3247	324.754 {1	Y_3600	ppm	0.0074	0.0002	3.23	0.0076	0.0073
Fe2404	240.488 {1	In2306	ppm	0.1025	0.0086	8.39	0.1086	0.0964
K_7664	766.490 {	Y_3710	ppm	0.6532	0.0581	8.888	0.6943	0.6122
K_7698	769.896 {	Y_3710	ppm	0.4842	0.0615	12.71	0.5277	0.4407
Li6707	670.784 {	Y_3710	ppm	0.0098	0	0.3568	0.0099	0.0098
Mg2790	279.079 {1	Y_3710	ppm	0.0963	0.0084	8.757	0.1023	0.0903
Mn2576	257.610 {1	Y_3600	ppm	0.0094	0.0001	1.133	0.0093	0.0095
Mn2576-2	257.610 {1	Y_3710	ppm	0.0096	0.0003	3.227	0.0098	0.0094
Mo2020	202.030 {4	Y_2243	ppm	0.0121	0.001	8.305	0.0114	0.0128
Na5895	589.592 {	Y_3710	ppm	0.6367	0.0371	5.823	0.6629	0.6105
Na8183	818.326 {	Y_3710	ppm	0.5923	0.0389	6.572	0.6199	0.5648
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0006	6.306	0.0097	0.0106
P_1782	178.284 {4	In2306	ppm	0.0067	0.0009	14.1	0.006	0.0073
Pb2203	220.353 {4	In2306	ppm	0.0098	0.0006	5.899	0.0094	0.0102
S_1820	182.034 {4	Y_2243	ppm	-30.8	0.238	0.7726	-30.97	-30.63
Sb2068	206.833 {4	Y_2243	ppm	0.0132	0.002	14.85	0.0118	0.0146
Se1960	196.090 {4	Y_2243	ppm	0.0089	0	0.5532	0.0089	0.0088
Si2516	251.611 {1	Y_3710	ppm	0.0101	0.0029	29.16	0.0122	0.008
Sn1899	189.989 {4	In2306	ppm	0.0103	0.0008	7.613	0.0097	0.0108
Sr4215	421.552 {	Y_3710	ppm	0.0052	0.0004	7.339	0.0055	0.005
Ti3349	334.904 {1	Y_3600	ppm	0.01	0.0002	1.813	0.0101	0.0099
Tl1908	190.856 {4	In2306	ppm	0.0593	0.0204	34.41	0.0448	0.0737
V_2924	292.402 {1	Y_3600	ppm	0.01	0.0001	1.465	0.0099	0.0101
Zn2062	206.200 {4	In2306	ppm	0.0094	0.0005	5.636	0.009	0.0097

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1044.5	47.168	4.516	1011.1	1077.8
In2306	230.606 {4	Cts/S	15010	10.33	0.06882	15017	15002
Y_2243	224.306 {4	Cts/S	21818	4.12	0.01888	21821	21815
Y_3600	360.073 {	Cts/S	204770	294.46	0.14381	204560	204970
Y_3710	371.030 {	Cts/S	55790	2744	4.9184	53850	57731

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:22:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0004	120.6	-0.0006	0
Al3082	308.215 {1	In2306	ppm	0.0207	0.0013	6.4	0.0216	0.0197
As1890	189.042 {4	Y_2243	ppm	0.0003	0.0005	191	0.0006	-0.0001
B_2496	249.678 {1	Y_3710	ppm	-0.0204	0.0012	5.763	-0.0212	-0.0195
Ba4554	455.403 {	Y_3710	ppm	0.0001	0.0002	319.1	-0.0001	0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	38.71	0	0
Ca3158	315.887 {1	In2306	ppm	0.004	0.0027	68.09	0.006	0.0021
Ca3181	318.128 {1	In2306	ppm	0.0116	0.0004	3.713	0.0113	0.0119
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	0.9523	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	108.8	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0	12.74	0.0002	0.0003
Cu3247	324.754 {1	Y_3600	ppm	-0.0027	0.0002	8.747	-0.0026	-0.0029
Fe2404	240.488 {1	In2306	ppm	0.0009	0.0001	8.259	0.001	0.0009
K_7664	766.490 {	Y_3710	ppm	0.0119	0.0013	10.88	0.0128	0.011
K_7698	769.896 {	Y_3710	ppm	-0.1547	0.0335	21.66	-0.131	-0.1784
Li6707	670.784 {	Y_3710	ppm	-0.0007	0	2.701	-0.0006	-0.0007
Mg2790	279.079 {1	Y_3710	ppm	-0.0061	0.0008	12.36	-0.0056	-0.0066
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	134.5	-0.0002	0
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0003	0	1.845	-0.0003	-0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0001	41.47	0.0002	0.0001
Na5895	589.592 {	Y_3710	ppm	0.0004	0.0086	2064	0.0065	-0.0056
Na8183	818.326 {	Y_3710	ppm	-0.081	0.1104	136.3	-0.003	-0.1591
Ni2316	231.604 {4	In2306	ppm	0.0001	0.0001	264.4	0.0002	0
P_1782	178.284 {4	In2306	ppm	-0.0022	0	0.8553	-0.0022	-0.0022
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0005	174.3	-0.0001	0.0007
S_1820	182.034 {4	Y_2243	ppm	-30.47	0.9442	3.099	-31.14	-29.8
Sb2068	206.833 {4	Y_2243	ppm	-0.0001	0.0003	219.9	-0.0003	0.0001
Se1960	196.090 {4	Y_2243	ppm	-0.0013	0.0024	183.4	0.0004	-0.003
Si2516	251.611 {1	Y_3710	ppm	-0.0015	0.003	192.6	-0.0036	0.0006
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0001	50.76	0.0002	0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0.0001	176.3	-0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0004	0.0001	16.59	-0.0004	-0.0004
Tl1908	190.856 {4	In2306	ppm	-0.0057	0.0105	185.1	-0.0131	0.0018
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	522.5	0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	-0.0003	0	0.7913	-0.0003	-0.0003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1054.2	17.362	1.647	1041.9	1066.5
In2306	230.606 {4	Cts/S	14769	95.443	0.64623	14702	14837
Y_2243	224.306 {4	Cts/S	21419	82.044	0.38304	21361	21477
Y_3600	360.073 {	Cts/S	202530	305.61	0.15089	202750	202320
Y_3710	371.030 {	Cts/S	56578	1114	1.9689	55790	57365

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:24:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0015	0.001	65.84	-0.0008	-0.0022
Al3082	308.215 {1	In2306	ppm	529.6	37.64	7.108	502.9	556.2
As1890	189.042 {4	Y_2243	ppm	-0.0054	0.0004	7.018	-0.0052	-0.0057
B_2496	249.678 {1	Y_3710	ppm	-0.021	0.0003	1.403	-0.0208	-0.0212
Ba4554	455.403 {	Y_3710	ppm	0.0003	0.0001	40.06	0.0002	0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	178.8	-0.0001	0
Ca3158	315.887 {1	In2306	ppm	476	14.82	3.114	465.5	486.4
Ca3181	318.128 {1	In2306	ppm	483.1	34.24	7.089	458.8	507.3
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0002	60.68	0.0004	0.0001
Co2286	228.616 {4	In2306	ppm	-0.0005	0.0002	31.92	-0.0004	-0.0006
Cr2677	267.716 {1	Y_3600	ppm	0.0029	0.0007	23.59	0.0034	0.0024
Cu3247	324.754 {1	Y_3600	ppm	-0.0003	0.0004	149.9	0	-0.0005
Fe2404	240.488 {1	In2306	ppm	187.6	12.73	6.784	178.6	196.6
K_7664	766.490 {	Y_3710	ppm	0.0068	0.017	250	-0.0052	0.0188
K_7698	769.896 {	Y_3710	ppm	-0.435	0.0307	7.06	-0.4567	-0.4132
Li6707	670.784 {	Y_3710	ppm	0.016	0.0017	10.87	0.0148	0.0172
Mg2790	279.079 {1	Y_3710	ppm	475.2	34.77	7.317	450.6	499.8
Mn2576	257.610 {1	Y_3600	ppm	-0.0047	0.0003	7.321	-0.0045	-0.0049
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0041	0.0002	5.161	-0.0039	-0.0042
Mo2020	202.030 {4	Y_2243	ppm	-0.0015	0	2.521	-0.0016	-0.0015
Na5895	589.592 {	Y_3710	ppm	0.0207	0.002	9.793	0.0221	0.0192
Na8183	818.326 {	Y_3710	ppm	0.5921	0.0553	9.347	0.553	0.6312
Ni2316	231.604 {4	In2306	ppm	0.0077	0.0004	4.542	0.008	0.0075
P_1782	178.284 {4	In2306	ppm	0.0061	0.0017	27.96	0.0073	0.0049
Pb2203	220.353 {4	In2306	ppm	0.0034	0.002	59.72	0.0048	0.002
S_1820	182.034 {4	Y_2243	ppm	-2.208	0.489	22.15	-2.553	-1.862
Sb2068	206.833 {4	Y_2243	ppm	-0.0124	0.0017	14.08	-0.0137	-0.0112
Se1960	196.090 {4	Y_2243	ppm	0.0056	0.0018	32.83	0.0069	0.0043
Si2516	251.611 {1	Y_3710	ppm	0.0006	0.0007	122.8	0.0011	0.0001
Sn1899	189.989 {4	In2306	ppm	0.0029	0	0.5583	0.0029	0.0029
Sr4215	421.552 {	Y_3710	ppm	0.0022	0.0002	10.76	0.002	0.0024
Ti3349	334.904 {1	Y_3600	ppm	0.0029	0.0004	13.09	0.0026	0.0031
Tl1908	190.856 {4	In2306	ppm	-0.0348	0.002	5.793	-0.0362	-0.0333
V_2924	292.402 {1	Y_3600	ppm	-0.0044	0.0005	11.4	-0.0047	-0.004
Zn2062	206.200 {4	In2306	ppm	0.009	0.0001	0.6572	0.0091	0.009

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	962.85	55.055	5.7179	1001.8	923.92
In2306	230.606 {4	Cts/S	10406	75.424	0.72481	10459	10353
Y_2243	224.306 {4	Cts/S	18913	152.45	0.80606	19021	18805
Y_3600	360.073 {	Cts/S	166140	12773	7.6881	157110	175170
Y_3710	371.030 {	Cts/S	56784	3531.9	6.2198	59282	54287

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:26:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5196	0.0197	3.783	0.5057	0.5335
Al3082	308.215 {1	In2306	ppm	588.1	33.42	5.683	564.4	611.7
As1890	189.042 {4	Y_2243	ppm	1.002	0.0113	1.126	0.994	1.01
B_2496	249.678 {1	Y_3710	ppm	1.002	0.0538	5.364	0.9643	1.04
Ba4554	455.403 {	Y_3710	ppm	1.037	0.0578	5.581	0.9956	1.077
Be3130	313.042 {1	Y_3710	ppm	0.4959	0.0272	5.477	0.4767	0.5151
Ca3158	315.887 {1	In2306	ppm	490.8	3.291	0.6705	488.4	493.1
Ca3181	318.128 {1	In2306	ppm	531.9	28.1	5.282	512.1	551.8
Cd2288	228.802 {4	Y_2243	ppm	0.5143	0.0022	0.4205	0.5128	0.5158
Co2286	228.616 {4	In2306	ppm	1.015	0.0004	0.0414	1.016	1.015
Cr2677	267.716 {1	Y_3600	ppm	0.8951	0.027	3.014	0.8761	0.9142
Cu3247	324.754 {1	Y_3600	ppm	1.062	0.0285	2.683	1.041	1.082
Fe2404	240.488 {1	In2306	ppm	212.5	11.28	5.308	204.5	220.5
K_7664	766.490 {	Y_3710	ppm	10.99	0.5992	5.452	10.57	11.41
K_7698	769.896 {	Y_3710	ppm	10.63	0.5558	5.23	10.23	11.02
Li6707	670.784 {	Y_3710	ppm	1.142	0.0656	5.743	1.096	1.188
Mg2790	279.079 {1	Y_3710	ppm	521.7	26.54	5.087	502.9	540.4
Mn2576	257.610 {1	Y_3600	ppm	0.8628	0.0253	2.93	0.8449	0.8807
Mn2576-2	257.610 {1	Y_3710	ppm	0.9033	0.0488	5.399	0.8688	0.9378
Mo2020	202.030 {4	Y_2243	ppm	0.9118	0.002	0.2241	0.9103	0.9132
Na5895	589.592 {	Y_3710	ppm	11.01	0.5937	5.393	10.59	11.43
Na8183	818.326 {	Y_3710	ppm	11.69	0.4823	4.125	11.35	12.03
Ni2316	231.604 {4	In2306	ppm	0.9994	0.0001	0.0104	0.9995	0.9994
P_1782	178.284 {4	In2306	ppm	1.189	0.003	0.2525	1.191	1.187
Pb2203	220.353 {4	In2306	ppm	0.973	0.0076	0.7782	0.9783	0.9676
S_1820	182.034 {4	Y_2243	ppm	-6.382	0.7106	11.13	-5.88	-6.884
Sb2068	206.833 {4	Y_2243	ppm	0.989	0.0025	0.2516	0.9907	0.9872
Se1960	196.090 {4	Y_2243	ppm	0.9972	0.0051	0.5095	0.9936	1.001
Si2516	251.611 {1	Y_3710	ppm	0.99	0.0504	5.091	0.9543	1.026
Sn1899	189.989 {4	In2306	ppm	0.9966	0.0023	0.2275	0.9982	0.995
Sr4215	421.552 {	Y_3710	ppm	0.5155	0.0295	5.723	0.4946	0.5363
Ti3349	334.904 {1	Y_3600	ppm	0.9627	0.0298	3.095	0.9417	0.9838
Tl1908	190.856 {4	In2306	ppm	0.9068	0.0846	9.332	0.9667	0.847
V_2924	292.402 {1	Y_3600	ppm	0.9364	0.0272	2.906	0.9172	0.9556
Zn2062	206.200 {4	In2306	ppm	1.013	0.0022	0.2159	1.015	1.012

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	903.04	36.758	4.0705	929.03	877.04
In2306	230.606 {4	Cts/S	10338	13.963	0.13506	10348	10329
Y_2243	224.306 {4	Cts/S	18921	64.774	0.34234	18967	18875
Y_3600	360.073 {	Cts/S	175210	4179.8	2.3856	178170	172260
Y_3710	371.030 {	Cts/S	53337	2172.5	4.0733	54873	51800

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=RINSE
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:29:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0007	0.0002	33.89	0.0005	0.0009
Al3082	308.215 {1	In2306	ppm	0.0654	0.0286	43.67	0.0856	0.0452
As1890	189.042 {4	Y_2243	ppm	0.003	0.0008	27.93	0.0035	0.0024
B_2496	249.678 {1	Y_3710	ppm	-0.0214	0.0036	16.79	-0.0189	-0.024
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	147.8	0	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	69.9	0	0
Ca3158	315.887 {1	In2306	ppm	0.0406	0.0144	35.34	0.0508	0.0305
Ca3181	318.128 {1	In2306	ppm	0.0292	0.028	96.07	0.049	0.0094
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0.0004	636.3	-0.0002	0.0004
Co2286	228.616 {4	In2306	ppm	0.0006	0.0007	111.9	0.0001	0.0011
Cr2677	267.716 {1	Y_3600	ppm	0	0.0001	153.5	0	-0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.0023	0.0003	13.42	-0.002	-0.0025
Fe2404	240.488 {1	In2306	ppm	0.0173	0.0088	50.91	0.0236	0.0111
K_7664	766.490 {	Y_3710	ppm	0.0009	0.0049	540.8	-0.0026	0.0044
K_7698	769.896 {	Y_3710	ppm	-0.7106	0.023	3.238	-0.7269	-0.6944
Li6707	670.784 {	Y_3710	ppm	-0.0014	0.0009	64.32	-0.0008	-0.002
Mg2790	279.079 {1	Y_3710	ppm	0.035	0.0241	68.9	0.052	0.0179
Mn2576	257.610 {1	Y_3600	ppm	0.0001	0.0001	193.4	0.0002	0
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0003	0.0003	104.2	-0.0001	-0.0005
Mo2020	202.030 {4	Y_2243	ppm	-0.0002	0.0003	176.9	-0.0004	0
Na5895	589.592 {	Y_3710	ppm	-0.004	0.001	24.78	-0.0033	-0.0047
Na8183	818.326 {	Y_3710	ppm	-0.0264	0.0348	131.5	-0.0018	-0.051
Ni2316	231.604 {4	In2306	ppm	0.0007	0.0007	107.5	0.0002	0.0012
P_1782	178.284 {4	In2306	ppm	-0.0018	0.0013	71.03	-0.0027	-0.0009
Pb2203	220.353 {4	In2306	ppm	0	0.0007	3188	-0.0005	0.0004
S_1820	182.034 {4	Y_2243	ppm	-26.81	0.6297	2.349	-27.26	-26.37
Sb2068	206.833 {4	Y_2243	ppm	0.0035	0.0018	49.95	0.0023	0.0048
Se1960	196.090 {4	Y_2243	ppm	0.0005	0.0016	293.8	-0.0006	0.0017
Si2516	251.611 {1	Y_3710	ppm	0.0677	0.009	13.35	0.0613	0.0741
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0001	58.93	-0.0003	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	33.15	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0	16.94	-0.0002	-0.0002
Tl1908	190.856 {4	In2306	ppm	-0.0434	0.003	6.864	-0.0455	-0.0413
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0001	109.2	0	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0003	0.0007	192.7	-0.0001	0.0008

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1141.4	40.508	3.5491	1112.7	1170
In2306	230.606 {4	Cts/S	15499	412.7	2.6628	15790	15207
Y_2243	224.306 {4	Cts/S	22238	683.32	3.0728	22721	21755
Y_3600	360.073 {	Cts/S	202890	9487.3	4.6761	196180	209600
Y_3710	371.030 {	Cts/S	59087	2855.8	4.8333	57068	61107

[Sample Header]
Method=ICP6500Metals_TRY3(v1023)
SampleName=RINSE
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/6/2012 17:31:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0005	316.3	0.0002	-0.0005
Al3082	308.215 {1	In2306	ppm	0.017	0.0025	14.82	0.0152	0.0187
As1890	189.042 {4	Y_2243	ppm	0.0024	0.0003	14.26	0.0022	0.0026
B_2496	249.678 {1	Y_3710	ppm	-0.0263	0.0026	9.793	-0.0282	-0.0245
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	56.69	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	22.6	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	-0.0037	0.0016	41.84	-0.0049	-0.0026
Ca3181	318.128 {1	In2306	ppm	0.0129	0.012	92.85	0.0044	0.0214
Cd2288	228.802 {4	Y_2243	ppm	-0.0001	0	31.69	-0.0001	-0.0002
Co2286	228.616 {4	In2306	ppm	0	0	9.458	0	0
Cr2677	267.716 {1	Y_3600	ppm	0	0.0002	400.1	0.0002	-0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.0024	0.0003	14.17	-0.0022	-0.0027
Fe2404	240.488 {1	In2306	ppm	0.0014	0.0016	112.8	0.0003	0.0025
K_7664	766.490 {	Y_3710	ppm	-0.0092	0.007	75.78	-0.0043	-0.0142
K_7698	769.896 {	Y_3710	ppm	-0.6919	0.008	1.158	-0.6862	-0.6975
Li6707	670.784 {	Y_3710	ppm	-0.0019	0.0002	11.7	-0.0018	-0.0021
Mg2790	279.079 {1	Y_3710	ppm	0.0003	0.0148	4691	-0.0102	0.0108
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	51.15	-0.0001	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0007	0	4	-0.0006	-0.0007
Mo2020	202.030 {4	Y_2243	ppm	-0.0004	0	13.01	-0.0004	-0.0003
Na5895	589.592 {	Y_3710	ppm	0.0017	0.0024	141.1	0.0033	0
Na8183	818.326 {	Y_3710	ppm	0.0502	0.049	97.61	0.0848	0.0155
Ni2316	231.604 {4	In2306	ppm	0.0001	0.0001	58.23	0.0001	0.0001
P_1782	178.284 {4	In2306	ppm	-0.0023	0.0015	66.16	-0.0034	-0.0012
Pb2203	220.353 {4	In2306	ppm	-0.0003	0.0001	34.62	-0.0003	-0.0004
S_1820	182.034 {4	Y_2243	ppm	-22.16	0.6557	2.959	-22.62	-21.7
Sb2068	206.833 {4	Y_2243	ppm	0.0009	0.0008	90.76	0.0003	0.0015
Se1960	196.090 {4	Y_2243	ppm	-0.0009	0.0006	64.8	-0.0005	-0.0013
Si2516	251.611 {1	Y_3710	ppm	0.0527	0.0196	37.11	0.0389	0.0666
Sn1899	189.989 {4	In2306	ppm	-0.0004	0.0002	55.79	-0.0003	-0.0006
Sr4215	421.552 {	Y_3710	ppm	0	0	22.33	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0001	90.43	-0.0001	-0.0003
Tl1908	190.856 {4	In2306	ppm	-0.0444	0.0004	0.9037	-0.0442	-0.0447
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0001	53.68	0.0001	0.0003
Zn2062	206.200 {4	In2306	ppm	-0.0001	0.0001	71.9	-0.0002	-0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1104.9	10.041	0.90872	1112	1097.8
In2306	230.606 {4	Cts/S	15654	241.17	1.5406	15824	15483
Y_2243	224.306 {4	Cts/S	22394	426.19	1.9032	22695	22092
Y_3600	360.073 {	Cts/S	205820	552	0.2682	206210	205430
Y_3710	371.030 {	Cts/S	57821	148.16	0.25623	57926	57716

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:47:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0008	382.5	-0.0004	0.0008
Al3082	308.215 {1	In2306	ppm	0.029	0.0095	32.85	0.0357	0.0222
As1890	189.042 {4	Y_2243	ppm	0.0013	0.0003	21.58	0.0015	0.0011
B_2496	249.678 {1	Y_3710	ppm	-0.0209	0	0.1166	-0.0209	-0.0209
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	16.76	-0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	78.9	0.0001	0
Ca3158	315.887 {1	In2306	ppm	0.0652	0.0011	1.745	0.0644	0.066
Ca3181	318.128 {1	In2306	ppm	0.0888	0.0054	6.122	0.0927	0.085
Cd2288	228.802 {4	Y_2243	ppm	0	0.0001	432.5	-0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	69.18	0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	26.04	0.0002	0.0002
Cu3247	324.754 {1	Y_3600	ppm	-0.0091	0.0001	1.282	-0.0092	-0.009
Fe2404	240.488 {1	In2306	ppm	0.0105	0.001	9.338	0.0098	0.0112
K_7664	766.490 {	Y_3710	ppm	-0.0199	0.0031	15.4	-0.0221	-0.0177
K_7698	769.896 {	Y_3710	ppm	-0.1663	0.0512	30.78	-0.2024	-0.1301
Li6707	670.784 {	Y_3710	ppm	-0.0011	0.0005	46.46	-0.0015	-0.0007
Mg2790	279.079 {1	Y_3710	ppm	0.0097	0.006	62.27	0.0054	0.014
Mn2576	257.610 {1	Y_3600	ppm	0.0003	0	14.58	0.0003	0.0003
Mn2576-2	257.610 {1	Y_3710	ppm	0.0001	0.0003	296.7	0.0003	-0.0001
Mo2020	202.030 {4	Y_2243	ppm	0.0008	0	2.61	0.0007	0.0008
Na5895	589.592 {	Y_3710	ppm	0.0108	0.0002	1.523	0.0107	0.0109
Na8183	818.326 {	Y_3710	ppm	0.1081	0.1267	117.2	0.1977	0.0185
Ni2316	231.604 {4	In2306	ppm	0.0003	0	15.14	0.0003	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0036	0.0004	12.16	-0.0033	-0.0039
Pb2203	220.353 {4	In2306	ppm	-0.0006	0.0002	28.66	-0.0007	-0.0005
S_1820	182.034 {4	Y_2243	ppm	-22.51	0.071	0.3154	-22.56	-22.46
Sb2068	206.833 {4	Y_2243	ppm	0.0268	0.0127	47.38	0.0178	0.0358
Se1960	196.090 {4	Y_2243	ppm	-0.002	0.0007	32.44	-0.0016	-0.0025
Si2516	251.611 {1	Y_3710	ppm	0.0135	0.0004	3.241	0.0132	0.0138
Sn1899	189.989 {4	In2306	ppm	0.0011	0.0002	16.87	0.0012	0.001
Sr4215	421.552 {	Y_3710	ppm	0	0	34.41	0	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0001	142.5	0	0.0001
Tl1908	190.856 {4	In2306	ppm	0.006	0.0075	124.5	0.0007	0.0114
V_2924	292.402 {1	Y_3600	ppm	0.0004	0	4.114	0.0004	0.0005
Zn2062	206.200 {4	In2306	ppm	0.0077	0	0.098	0.0077	0.0077

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1019.9	4.7135	0.46214	1023.3	1016.6
In2306	230.606 {4	Cts/S	19725	1.2948	0.00656	19726	19724
Y_2243	224.306 {4	Cts/S	23704	2.2572	0.00952	23705	23702
Y_3600	360.073 {	Cts/S	209130	109.59	0.0524	209210	209060
Y_3710	371.030 {	Cts/S	56090	404.62	0.72137	56376	55804

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:50:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0005	0.0006	129.9	0.0009	0
Al3082	308.215 {1	In2306	ppm	0.0367	0.0003	0.6834	0.0369	0.0365
As1890	189.042 {4	Y_2243	ppm	0.0012	0.0001	8.553	0.0011	0.0013
B_2496	249.678 {1	Y_3710	ppm	-0.0257	0.0006	2.181	-0.0261	-0.0253
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	9.239	-0.0002	-0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	150.3	0.0001	0
Ca3158	315.887 {1	In2306	ppm	0.0265	0.0016	6.068	0.0253	0.0276
Ca3181	318.128 {1	In2306	ppm	0.0407	0.0123	30.27	0.0494	0.032
Cd2288	228.802 {4	Y_2243	ppm	0	0	184.7	0	0
Co2286	228.616 {4	In2306	ppm	0.0001	0.0002	125.5	0	0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	47.74	0.0002	0.0001
Cu3247	324.754 {1	Y_3600	ppm	-0.009	0.0001	1.285	-0.0091	-0.0089
Fe2404	240.488 {1	In2306	ppm	0.0035	0.0037	104.9	0.0009	0.0061
K_7664	766.490 {	Y_3710	ppm	-0.0167	0.0013	7.862	-0.0176	-0.0158
K_7698	769.896 {	Y_3710	ppm	-0.2325	0.0061	2.604	-0.2282	-0.2367
Li6707	670.784 {	Y_3710	ppm	-0.0013	0	0.1732	-0.0013	-0.0013
Mg2790	279.079 {1	Y_3710	ppm	0.0256	0.0033	13.07	0.0279	0.0232
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	299.6	0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.0009	557.3	-0.0005	0.0008
Mo2020	202.030 {4	Y_2243	ppm	-0.0001	0.0001	98.17	-0.0001	0
Na5895	589.592 {	Y_3710	ppm	-0.0017	0.0033	193.8	0.0006	-0.004
Na8183	818.326 {	Y_3710	ppm	-0.1534	0.1053	68.62	-0.079	-0.2279
Ni2316	231.604 {4	In2306	ppm	0	0.0001	480.1	0	-0.0001
P_1782	178.284 {4	In2306	ppm	-0.0037	0.0001	1.978	-0.0037	-0.0038
Pb2203	220.353 {4	In2306	ppm	-0.0003	0.0004	139.5	-0.0005	0
S_1820	182.034 {4	Y_2243	ppm	-18.39	1.463	7.957	-19.42	-17.36
Sb2068	206.833 {4	Y_2243	ppm	0.001	0.0021	205.8	-0.0005	0.0025
Se1960	196.090 {4	Y_2243	ppm	-0.003	0.0021	71.77	-0.0015	-0.0045
Si2516	251.611 {1	Y_3710	ppm	0.0086	0.001	11.28	0.0079	0.0092
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0003	378.5	0.0003	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	178.8	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0003	0	2.589	-0.0003	-0.0003
Tl1908	190.856 {4	In2306	ppm	-0.0337	0.0027	7.997	-0.0356	-0.0318
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0001	115.2	0.0002	0
Zn2062	206.200 {4	In2306	ppm	0.0026	0.0001	4.203	0.0027	0.0026

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1018	1.1941	0.1173	1018.9	1017.2
In2306	230.606 {4	Cts/S	19355	413.88	2.1384	19062	19647
Y_2243	224.306 {4	Cts/S	23211	516.28	2.2243	22846	23576
Y_3600	360.073 {	Cts/S	206820	599.75	0.28999	207240	206390
Y_3710	371.030 {	Cts/S	55813	213.45	0.38244	55663	55964

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=Blank
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:52:52
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	Cts/S	0	0	84.36	-0.0001	0
Al3082	308.215	{1 In2306	Cts/S	0.0188	0.0009	4.66	0.0194	0.0182
As1890	189.042	{4 Y_2243	Cts/S	-0.0001	0	32.99	-0.0001	-0.0001
B_2496	249.678	{1 Y_3710	Cts/S	0.0006	0	2.168	0.0006	0.0006
Ba4554	455.403	{ 7 Y_3710	Cts/S	0.0009	0.0001	9.477	0.001	0.0008
Be3130	313.042	{1 Y_3710	Cts/S	0	0	35.5	0	0
Ca3158	315.887	{1 In2306	Cts/S	-0.0341	0	0.0723	-0.0341	-0.0341
Ca3181	318.128	{1 In2306	Cts/S	0.0022	0.0007	33.76	0.0017	0.0027
Cd2288	228.802	{4 Y_2243	Cts/S	0.0002	0	12.61	0.0002	0.0002
Co2286	228.616	{4 In2306	Cts/S	-0.0001	0.0001	54.06	-0.0001	-0.0002
Cr2677	267.716	{1 Y_3600	Cts/S	0	0	70.94	0	0
Cu3247	324.754	{1 Y_3600	Cts/S	0.0035	0	1.176	0.0035	0.0035
Fe2404	240.488	{1 In2306	Cts/S	0.003	0.0006	19.35	0.0026	0.0034
K_7664	766.490	{ 4 Y_3710	Cts/S	-0.0004	0.0001	15.87	-0.0004	-0.0003
K_7698	769.896	{ 4 Y_3710	Cts/S	0.0034	0.0003	7.979	0.0036	0.0033
Li6707	670.784	{ 8 Y_3710	Cts/S	-0.0001	0.0004	375.2	0.0002	-0.0004
Mg2790	279.079	{1 Y_3710	Cts/S	0	0	204.4	0.0001	0
Mn2576	257.610	{1 Y_3600	Cts/S	0	0	15.58	0	0.0001
Mn2576-2	257.610	{1 Y_3710	Cts/S	0.0001	0	64.32	0.0001	0
Mo2020	202.030	{4 Y_2243	Cts/S	0.0001	0	5.013	0.0001	0.0001
Na5895	589.592	{ 8 Y_3710	Cts/S	0.0008	0.0001	10.41	0.0007	0.0008
Na8183	818.326	{ 4 Y_3710	Cts/S	-0.0005	0.0001	21.29	-0.0005	-0.0004
Ni2316	231.604	{4 In2306	Cts/S	-0.0001	0	51.1	-0.0001	-0.0001
P_1782	178.284	{4 In2306	Cts/S	0.0001	0	16.35	0.0001	0.0001
Pb2203	220.353	{4 In2306	Cts/S	-0.0002	0.0001	32.09	-0.0002	-0.0003
S_1820	182.034	{4 Y_2243	Cts/S	0.0005	0	4.872	0.0005	0.0005
Sb2068	206.833	{4 Y_2243	Cts/S	0	0	119.5	-0.0001	0
Se1960	196.090	{4 Y_2243	Cts/S	-0.0001	0	26.27	-0.0001	-0.0001
Si2516	251.611	{1 Y_3710	Cts/S	0.0002	0	8.83	0.0002	0.0002
Sn1899	189.989	{4 In2306	Cts/S	0.0001	0	16.94	0.0001	0.0001
Sr4215	421.552	{ 8 Y_3710	Cts/S	0.0001	0	1.914	0.0001	0.0001
Ti3349	334.904	{1 Y_3600	Cts/S	0	0	48.99	0	-0.0001
Tl1908	190.856	{4 In2306	Cts/S	0.0002	0	25.06	0.0001	0.0002
V_2924	292.402	{1 Y_3600	Cts/S	-0.0002	0	17.19	-0.0002	-0.0002
Zn2062	206.200	{4 In2306	Cts/S	0.001	0	1.08	0.001	0.001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1009.3	11.509	1.1403	1001.2	1017.5
In2306	230.606	{4 Cts/S	19646	264.52	1.3464	19833	19459
Y_2243	224.306	{4 Cts/S	23538	315.54	1.3406	23761	23315
Y_3600	360.073	{ 9 Cts/S	206490	732.24	0.35461	207010	205970
Y_3710	371.030	{ 9 Cts/S	55379	317.63	0.57355	55155	55604

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CalibStd-1
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:55:15
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.005	0	0.3023	0.005	0.005
Al3082	308.215 {1	In2306	Cts/S	0.3886	0.0058	1.504	0.3844	0.3927
As1890	189.042 {4	Y_2243	Cts/S	0.0047	0	1.004	0.0046	0.0047
B_2496	249.678 {1	Y_3710	Cts/S	0.003	0.0001	2.95	0.003	0.0029
Ba4554	455.403 {	Y_3710	Cts/S	0.1785	0.0012	0.6845	0.1794	0.1776
Be3130	313.042 {1	Y_3710	Cts/S	0.1271	0.0003	0.214	0.1273	0.1269
Ca3158	315.887 {1	In2306	Cts/S	0.5447	0.001	0.1863	0.5454	0.544
Ca3181	318.128 {1	In2306	Cts/S	0.2916	0.0045	1.527	0.2885	0.2948
Cd2288	228.802 {4	Y_2243	Cts/S	0.058	0.0009	1.538	0.0573	0.0586
Co2286	228.616 {4	In2306	Cts/S	0.079	0.001	1.217	0.0783	0.0797
Cr2677	267.716 {1	Y_3600	Cts/S	0.008	0	0.1678	0.008	0.0081
Cu3247	324.754 {1	Y_3600	Cts/S	0.0245	0	0.1358	0.0245	0.0245
Fe2404	240.488 {1	In2306	Cts/S	0.9953	0.0023	0.2323	0.9969	0.9936
K_7664	766.490 {	Y_3710	Cts/S	0.0149	0.0004	2.383	0.0151	0.0146
K_7698	769.896 {	Y_3710	Cts/S	0.0105	0.0002	2.168	0.0103	0.0106
Li6707	670.784 {	Y_3710	Cts/S	0.0398	0	0.012	0.0398	0.0398
Mg2790	279.079 {1	Y_3710	Cts/S	0.0052	0	0.2982	0.0052	0.0052
Mn2576	257.610 {1	Y_3600	Cts/S	0.0181	0	0.1896	0.0181	0.0182
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0096	0	0.1385	0.0095	0.0096
Mo2020	202.030 {4	Y_2243	Cts/S	0.0276	0.0004	1.346	0.0274	0.0279
Na5895	589.592 {	Y_3710	Cts/S	0.0469	0.0001	0.3087	0.0468	0.047
Na8183	818.326 {	Y_3710	Cts/S	0.0014	0	1.682	0.0014	0.0014
Ni2316	231.604 {4	In2306	Cts/S	0.0422	0.0005	1.07	0.0419	0.0425
P_1782	178.284 {4	In2306	Cts/S	0.0034	0.0001	2.07	0.0034	0.0035
Pb2203	220.353 {4	In2306	Cts/S	0.0119	0.0001	1.232	0.0118	0.012
S_1820	182.034 {4	Y_2243	Cts/S	0.0005	0	2.02	0.0005	0.0005
Sb2068	206.833 {4	Y_2243	Cts/S	0.0049	0.0001	1.983	0.0048	0.0049
Se1960	196.090 {4	Y_2243	Cts/S	0.0027	0	0.0262	0.0027	0.0027
Si2516	251.611 {1	Y_3710	Cts/S	0.0017	0	2.116	0.0016	0.0017
Sn1899	189.989 {4	In2306	Cts/S	0.0135	0.0002	1.499	0.0133	0.0136
Sr4215	421.552 {	Y_3710	Cts/S	0.1362	0.0005	0.3817	0.1366	0.1359
Ti3349	334.904 {1	Y_3600	Cts/S	0.0157	0	0.1896	0.0157	0.0157
Tl1908	190.856 {4	In2306	Cts/S	0.004	0.0004	10.08	0.0043	0.0038
V_2924	292.402 {1	Y_3600	Cts/S	0.0127	0.0001	0.6963	0.0127	0.0128
Zn2062	206.200 {4	In2306	Cts/S	0.077	0.0008	1.054	0.0764	0.0776

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1019.3	4.9757	0.48815	1022.8	1015.8
In2306	230.606 {4	Cts/S	19272	249.17	1.2929	19448	19096
Y_2243	224.306 {4	Cts/S	23360	328.99	1.4084	23592	23127
Y_3600	360.073 {	Cts/S	207830	824.86	0.39689	207250	208410
Y_3710	371.030 {	Cts/S	56244	443.38	0.7883	56558	55931

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CalibStd-2
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:57:33
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0101	0	0.3933	0.0101	0.0102
Al3082	308.215 {1	In2306	Cts/S	0.7915	0.0373	4.71	0.7651	0.8178
As1890	189.042 {4	Y_2243	Cts/S	0.0094	0.0001	1.087	0.0094	0.0093
B_2496	249.678 {1	Y_3710	Cts/S	0.0057	0.0002	3.154	0.0056	0.0059
Ba4554	455.403 {	Y_3710	Cts/S	0.3691	0.0166	4.508	0.3573	0.3808
Be3130	313.042 {1	Y_3710	Cts/S	0.2621	0.0122	4.667	0.2534	0.2707
Ca3158	315.887 {1	In2306	Cts/S	1.159	0.0584	5.04	1.117	1.2
Ca3181	318.128 {1	In2306	Cts/S	0.6126	0.03	4.891	0.5914	0.6338
Cd2288	228.802 {4	Y_2243	Cts/S	0.1136	0.0007	0.6037	0.1141	0.1131
Co2286	228.616 {4	In2306	Cts/S	0.156	0.0018	1.133	0.1573	0.1548
Cr2677	267.716 {1	Y_3600	Cts/S	0.0162	0	0.142	0.0162	0.0162
Cu3247	324.754 {1	Y_3600	Cts/S	0.0455	0.0002	0.5163	0.0457	0.0453
Fe2404	240.488 {1	In2306	Cts/S	2.067	0.1008	4.877	1.996	2.138
K_7664	766.490 {	Y_3710	Cts/S	0.0309	0.001	3.383	0.0301	0.0316
K_7698	769.896 {	Y_3710	Cts/S	0.0175	0.0008	4.505	0.017	0.0181
Li6707	670.784 {	Y_3710	Cts/S	0.0821	0.0037	4.461	0.0795	0.0846
Mg2790	279.079 {1	Y_3710	Cts/S	0.0106	0.0006	5.431	0.0102	0.011
Mn2576	257.610 {1	Y_3600	Cts/S	0.0364	0.0002	0.4565	0.0365	0.0362
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0194	0.0008	4.13	0.0189	0.02
Mo2020	202.030 {4	Y_2243	Cts/S	0.0545	0.0004	0.823	0.0548	0.0542
Na5895	589.592 {	Y_3710	Cts/S	0.0966	0.0042	4.395	0.0936	0.0996
Na8183	818.326 {	Y_3710	Cts/S	0.0035	0	0.2084	0.0035	0.0035
Ni2316	231.604 {4	In2306	Cts/S	0.0838	0.0007	0.7918	0.0843	0.0833
P_1782	178.284 {4	In2306	Cts/S	0.0068	0	0.3064	0.0068	0.0067
Pb2203	220.353 {4	In2306	Cts/S	0.0237	0.0002	0.8093	0.0239	0.0236
S_1820	182.034 {4	Y_2243	Cts/S	0.0005	0	2.729	0.0005	0.0004
Sb2068	206.833 {4	Y_2243	Cts/S	0.0096	0.0001	0.5494	0.0097	0.0096
Se1960	196.090 {4	Y_2243	Cts/S	0.0055	0.0001	1.09	0.0055	0.0054
Si2516	251.611 {1	Y_3710	Cts/S	0.0031	0.0003	8.709	0.0029	0.0033
Sn1899	189.989 {4	In2306	Cts/S	0.0266	0.0003	1.042	0.0268	0.0264
Sr4215	421.552 {	Y_3710	Cts/S	0.2793	0.0124	4.437	0.2705	0.288
Ti3349	334.904 {1	Y_3600	Cts/S	0.0315	0.0001	0.4186	0.0316	0.0314
Tl1908	190.856 {4	In2306	Cts/S	0.009	0.001	10.84	0.0097	0.0083
V_2924	292.402 {1	Y_3600	Cts/S	0.0259	0.0001	0.2466	0.0259	0.0258
Zn2062	206.200 {4	In2306	Cts/S	0.1517	0.0014	0.934	0.1527	0.1507

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	985.29	37.564	3.8125	1011.9	958.73
In2306	230.606 {4	Cts/S	19273	154.48	0.8015	19164	19382
Y_2243	224.306 {4	Cts/S	23554	163.88	0.69575	23439	23670
Y_3600	360.073 {	Cts/S	205670	403.09	0.19599	205380	205950
Y_3710	371.030 {	Cts/S	54695	2171.9	3.9709	56230	53159

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CalibStd-3
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 7:59:47
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0201	0.0002	0.9014	0.0202	0.02
Al3082	308.215 {1	In2306	Cts/S	1.533	0.0298	1.944	1.554	1.512
As1890	189.042 {4	Y_2243	Cts/S	0.0189	0.0001	0.3896	0.019	0.0189
B_2496	249.678 {1	Y_3710	Cts/S	0.0103	0.0001	1.266	0.0102	0.0104
Ba4554	455.403 {	Y_3710	Cts/S	0.7203	0.0004	0.0545	0.7206	0.7201
Be3130	313.042 {1	Y_3710	Cts/S	0.5083	0.001	0.1937	0.5076	0.509
Ca3158	315.887 {1	In2306	Cts/S	2.304	0.0119	0.5176	2.312	2.295
Ca3181	318.128 {1	In2306	Cts/S	1.193	0.0077	0.6463	1.198	1.187
Cd2288	228.802 {4	Y_2243	Cts/S	0.2279	0.0002	0.0844	0.2278	0.2281
Co2286	228.616 {4	In2306	Cts/S	0.3165	0.0003	0.0947	0.3163	0.3167
Cr2677	267.716 {1	Y_3600	Cts/S	0.032	0.0004	1.327	0.0323	0.0317
Cu3247	324.754 {1	Y_3600	Cts/S	0.0867	0.0013	1.473	0.0876	0.0858
Fe2404	240.488 {1	In2306	Cts/S	3.991	0.0375	0.9406	4.018	3.965
K_7664	766.490 {	Y_3710	Cts/S	0.0604	0.0002	0.3441	0.0606	0.0603
K_7698	769.896 {	Y_3710	Cts/S	0.0306	0.0007	2.274	0.0311	0.0301
Li6707	670.784 {	Y_3710	Cts/S	0.1595	0.0006	0.3522	0.1599	0.1591
Mg2790	279.079 {1	Y_3710	Cts/S	0.0205	0.0002	0.833	0.0204	0.0206
Mn2576	257.610 {1	Y_3600	Cts/S	0.0719	0	0.0541	0.0719	0.0718
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.038	0.0002	0.5904	0.0382	0.0378
Mo2020	202.030 {4	Y_2243	Cts/S	0.1103	0.0001	0.0865	0.1102	0.1104
Na5895	589.592 {	Y_3710	Cts/S	0.1875	0.0002	0.126	0.1877	0.1873
Na8183	818.326 {	Y_3710	Cts/S	0.0074	0.0001	0.7532	0.0074	0.0075
Ni2316	231.604 {4	In2306	Cts/S	0.1703	0.0002	0.0914	0.1702	0.1704
P_1782	178.284 {4	In2306	Cts/S	0.0139	0	0.3099	0.0138	0.0139
Pb2203	220.353 {4	In2306	Cts/S	0.048	0.0001	0.1824	0.0481	0.048
S_1820	182.034 {4	Y_2243	Cts/S	0.0005	0	2.102	0.0005	0.0005
Sb2068	206.833 {4	Y_2243	Cts/S	0.0197	0	0.159	0.0196	0.0197
Se1960	196.090 {4	Y_2243	Cts/S	0.0111	0	0.0776	0.0111	0.0111
Si2516	251.611 {1	Y_3710	Cts/S	0.0059	0.0001	2.267	0.0058	0.006
Sn1899	189.989 {4	In2306	Cts/S	0.0545	0.0001	0.2009	0.0545	0.0546
Sr4215	421.552 {	Y_3710	Cts/S	0.5422	0	0.0009	0.5422	0.5422
Ti3349	334.904 {1	Y_3600	Cts/S	0.0625	0.0005	0.7665	0.0628	0.0622
Tl1908	190.856 {4	In2306	Cts/S	0.0193	0.0014	7.274	0.0203	0.0183
V_2924	292.402 {1	Y_3600	Cts/S	0.0513	0.0007	1.44	0.0518	0.0508
Zn2062	206.200 {4	In2306	Cts/S	0.3069	0.0002	0.0676	0.3068	0.3071

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1004.8	10.473	1.0423	997.38	1012.2
In2306	230.606 {4	Cts/S	18793	30.113	0.16024	18814	18771
Y_2243	224.306 {4	Cts/S	23296	40.831	0.17527	23325	23267
Y_3600	360.073 {	Cts/S	206300	1314.3	0.63707	205370	207230
Y_3710	371.030 {	Cts/S	56132	251.64	0.44829	55954	56310

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CalibStd-4
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:01:58
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0401	0.0002	0.4658	0.0403	0.04
Al3082	308.215 {1	In2306	Cts/S	3.05	0.0262	0.8584	3.069	3.032
As1890	189.042 {4	Y_2243	Cts/S	0.0385	0	0.0767	0.0386	0.0385
B_2496	249.678 {1	Y_3710	Cts/S	0.0201	0.0001	0.6937	0.0202	0.02
Ba4554	455.403 {	Y_3710	Cts/S	1.432	0.0032	0.2254	1.43	1.435
Be3130	313.042 {1	Y_3710	Cts/S	1.009	0.0004	0.0395	1.009	1.009
Ca3158	315.887 {1	In2306	Cts/S	4.651	0.0107	0.2296	4.658	4.643
Ca3181	318.128 {1	In2306	Cts/S	2.383	0.0065	0.2747	2.388	2.378
Cd2288	228.802 {4	Y_2243	Cts/S	0.4557	0.0019	0.4072	0.457	0.4544
Co2286	228.616 {4	In2306	Cts/S	0.6438	0.0021	0.3207	0.6453	0.6424
Cr2677	267.716 {1	Y_3600	Cts/S	0.0635	0.0003	0.4138	0.0633	0.0637
Cu3247	324.754 {1	Y_3600	Cts/S	0.1692	0.0001	0.0549	0.1693	0.1692
Fe2404	240.488 {1	In2306	Cts/S	7.94	0.0272	0.3424	7.959	7.921
K_7664	766.490 {	Y_3710	Cts/S	0.1197	0.0007	0.6079	0.1192	0.1202
K_7698	769.896 {	Y_3710	Cts/S	0.0576	0.0003	0.5597	0.0578	0.0573
Li6707	670.784 {	Y_3710	Cts/S	0.3133	0.0014	0.46	0.3123	0.3144
Mg2790	279.079 {1	Y_3710	Cts/S	0.0407	0.0003	0.6312	0.0409	0.0405
Mn2576	257.610 {1	Y_3600	Cts/S	0.1448	0.0008	0.5858	0.1442	0.1454
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.0759	0.0003	0.4277	0.0761	0.0756
Mo2020	202.030 {4	Y_2243	Cts/S	0.219	0.001	0.47	0.2197	0.2182
Na5895	589.592 {	Y_3710	Cts/S	0.3707	0.0001	0.0324	0.3706	0.3708
Na8183	818.326 {	Y_3710	Cts/S	0.0149	0.0001	0.9816	0.015	0.0148
Ni2316	231.604 {4	In2306	Cts/S	0.3455	0.0018	0.5116	0.3468	0.3443
P_1782	178.284 {4	In2306	Cts/S	0.0283	0	0.1302	0.0283	0.0283
Pb2203	220.353 {4	In2306	Cts/S	0.097	0.0004	0.4213	0.0973	0.0968
S_1820	182.034 {4	Y_2243	Cts/S	0.0005	0	8.293	0.0005	0.0005
Sb2068	206.833 {4	Y_2243	Cts/S	0.0392	0	0.086	0.0393	0.0392
Se1960	196.090 {4	Y_2243	Cts/S	0.0224	0.0001	0.5531	0.0225	0.0223
Si2516	251.611 {1	Y_3710	Cts/S	0.0117	0.0001	0.8566	0.0116	0.0117
Sn1899	189.989 {4	In2306	Cts/S	0.1109	0.001	0.884	0.1116	0.1102
Sr4215	421.552 {	Y_3710	Cts/S	1.084	0.0003	0.0279	1.084	1.084
Ti3349	334.904 {1	Y_3600	Cts/S	0.1244	0.0008	0.6771	0.1238	0.125
Tl1908	190.856 {4	In2306	Cts/S	0.0411	0.0024	5.759	0.0427	0.0394
V_2924	292.402 {1	Y_3600	Cts/S	0.1024	0.0006	0.5973	0.102	0.1029
Zn2062	206.200 {4	In2306	Cts/S	0.6259	0.0024	0.3835	0.6276	0.6242

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1005.7	11.354	1.129	997.71	1013.8
In2306	230.606 {4	Cts/S	18255	59.589	0.32642	18213	18297
Y_2243	224.306 {4	Cts/S	23148	57.297	0.24752	23108	23189
Y_3600	360.073 {	Cts/S	204420	1134.8	0.5551	205230	203620
Y_3710	371.030 {	Cts/S	56451	445.28	0.7888	56136	56766

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CalibStd-5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:04:07
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	Cts/S	0.0813	0.0002	0.2489	0.0812	0.0815
Al3082	308.215 {1	In2306	Cts/S	6.103	0.0153	0.2508	6.114	6.092
As1890	189.042 {4	Y_2243	Cts/S	0.0772	0.0008	1.002	0.0777	0.0766
B_2496	249.678 {1	Y_3710	Cts/S	0.0405	0.0001	0.2993	0.0405	0.0404
Ba4554	455.403 {	Y_3710	Cts/S	2.887	0.0036	0.1248	2.884	2.89
Be3130	313.042 {1	Y_3710	Cts/S	2.043	0.0072	0.3544	2.038	2.048
Ca3158	315.887 {1	In2306	Cts/S	9.426	0.0419	0.4443	9.455	9.396
Ca3181	318.128 {1	In2306	Cts/S	4.821	0.0223	0.4616	4.837	4.805
Cd2288	228.802 {4	Y_2243	Cts/S	0.9131	0.0095	1.042	0.9198	0.9063
Co2286	228.616 {4	In2306	Cts/S	1.301	0.015	1.156	1.312	1.29
Cr2677	267.716 {1	Y_3600	Cts/S	0.1266	0	0.0182	0.1266	0.1266
Cu3247	324.754 {1	Y_3600	Cts/S	0.3389	0.0017	0.5043	0.3377	0.3401
Fe2404	240.488 {1	In2306	Cts/S	15.97	0.0181	0.113	15.99	15.96
K_7664	766.490 {	Y_3710	Cts/S	0.2438	0.0006	0.2341	0.2434	0.2442
K_7698	769.896 {	Y_3710	Cts/S	0.1119	0.0002	0.2109	0.1117	0.1121
Li6707	670.784 {	Y_3710	Cts/S	0.6315	0.0006	0.0893	0.6319	0.6311
Mg2790	279.079 {1	Y_3710	Cts/S	0.0824	0.0005	0.6471	0.082	0.0828
Mn2576	257.610 {1	Y_3600	Cts/S	0.2884	0.0006	0.1983	0.2888	0.288
Mn2576-2	257.610 {1	Y_3710	Cts/S	0.1527	0.0006	0.4161	0.1523	0.1532
Mo2020	202.030 {4	Y_2243	Cts/S	0.4346	0.005	1.148	0.4382	0.4311
Na5895	589.592 {	Y_3710	Cts/S	0.7482	0.0007	0.0962	0.7477	0.7487
Na8183	818.326 {	Y_3710	Cts/S	0.0305	0.0001	0.2713	0.0304	0.0305
Ni2316	231.604 {4	In2306	Cts/S	0.6964	0.0081	1.166	0.7021	0.6907
P_1782	178.284 {4	In2306	Cts/S	0.0586	0.0009	1.533	0.0593	0.058
Pb2203	220.353 {4	In2306	Cts/S	0.1949	0.0022	1.107	0.1964	0.1933
Sb2068	206.833 {4	Y_2243	Cts/S	0.0785	0.0007	0.8431	0.079	0.0781
Se1960	196.090 {4	Y_2243	Cts/S	0.0448	0.0004	0.7849	0.045	0.0446
Si2516	251.611 {1	Y_3710	Cts/S	0.0235	0.0003	1.439	0.0232	0.0237
Sn1899	189.989 {4	In2306	Cts/S	0.2225	0.0027	1.213	0.2244	0.2206
Sr4215	421.552 {	Y_3710	Cts/S	2.193	0.0004	0.0181	2.192	2.193
Ti3349	334.904 {1	Y_3600	Cts/S	0.2499	0.0008	0.3224	0.2493	0.2505
Tl1908	190.856 {4	In2306	Cts/S	0.0862	0.0041	4.793	0.0891	0.0833
V_2924	292.402 {1	Y_3600	Cts/S	0.2065	0.0008	0.3792	0.206	0.2071
Zn2062	206.200 {4	In2306	Cts/S	1.272	0.0175	1.372	1.284	1.259

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	990.15	4.1729	0.42144	987.19	993.1
In2306	230.606 {4	Cts/S	17538	126	0.71844	17449	17627
Y_2243	224.306 {4	Cts/S	22819	148.65	0.65143	22713	22924
Y_3600	360.073 {	Cts/S	200520	105.6	0.05266	200600	200450
Y_3710	371.030 {	Cts/S	55663	199.61	0.3586	55804	55522

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=ICV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:06:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2406	0.0093	3.88	0.234	0.2472
Al3082	308.215 {1	In2306	ppm	2.41	0.0083	0.3426	2.416	2.404
As1890	189.042 {4	Y_2243	ppm	0.5082	0.018	3.535	0.5209	0.4955
B_2496	249.678 {1	Y_3710	ppm	0.4943	0.01	2.031	0.5014	0.4872
Ba4554	455.403 {	Y_3710	ppm	0.4805	0.0042	0.8647	0.4834	0.4775
Be3130	313.042 {1	Y_3710	ppm	0.4866	0.0057	1.181	0.4907	0.4826
Ca3158	315.887 {1	In2306	ppm	12.04	0.1246	1.035	12.13	11.95
Ca3181	318.128 {1	In2306	ppm	12	0.1734	1.445	12.13	11.88
Cd2288	228.802 {4	Y_2243	ppm	0.5048	0.0149	2.958	0.5154	0.4943
Co2286	228.616 {4	In2306	ppm	0.4991	0.0154	3.083	0.51	0.4882
Cr2677	267.716 {1	Y_3600	ppm	0.4804	0.0204	4.244	0.466	0.4948
Cu3247	324.754 {1	Y_3600	ppm	0.4746	0.0214	4.503	0.4595	0.4897
Fe2404	240.488 {1	In2306	ppm	2.432	0.0355	1.46	2.457	2.407
K_7664	766.490 {	Y_3710	ppm	12.18	0.1791	1.47	12.31	12.05
K_7698	769.896 {	Y_3710	ppm	12.14	0.1807	1.488	12.27	12.01
Li6707	670.784 {	Y_3710	ppm	0.4849	0.0061	1.251	0.4891	0.4806
Mg2790	279.079 {1	Y_3710	ppm	4.812	0.0867	1.801	4.873	4.751
Mn2576	257.610 {1	Y_3600	ppm	0.4804	0.0231	4.806	0.4641	0.4967
Mn2576-2	257.610 {1	Y_3710	ppm	0.4846	0.0053	1.096	0.4884	0.4809
Mo2020	202.030 {4	Y_2243	ppm	0.5237	0.016	3.047	0.535	0.5124
Na5895	589.592 {	Y_3710	ppm	12.18	0.1166	0.9572	12.26	12.1
Na8183	818.326 {	Y_3710	ppm	12.17	0.0624	0.5133	12.21	12.12
Ni2316	231.604 {4	In2306	ppm	0.5002	0.0143	2.859	0.5103	0.4901
P_1782	178.284 {4	In2306	ppm	0.4971	0.0172	3.456	0.5092	0.4849
Pb2203	220.353 {4	In2306	ppm	0.4993	0.0166	3.325	0.511	0.4875
S_1820	182.034 {4	Y_2243	ppm	-829	26.03	3.141	-847.4	-810.6
Sb2068	206.833 {4	Y_2243	ppm	0.5059	0.0158	3.114	0.517	0.4947
Se1960	196.090 {4	Y_2243	ppm	0.5044	0.0139	2.752	0.5142	0.4946
Si2516	251.611 {1	Y_3710	ppm	0.9184	0.0037	0.3996	0.9209	0.9158
Sn1899	189.989 {4	In2306	ppm	0.5037	0.0156	3.101	0.5148	0.4927
Sr4215	421.552 {	Y_3710	ppm	0.2427	0.0022	0.9199	0.2442	0.2411
Ti3349	334.904 {1	Y_3600	ppm	0.4808	0.0211	4.391	0.4659	0.4957
Tl1908	190.856 {4	In2306	ppm	0.6502	0.0232	3.562	0.6339	0.6666
V_2924	292.402 {1	Y_3600	ppm	0.4821	0.0197	4.092	0.4682	0.4961
Zn2062	206.200 {4	In2306	ppm	0.4957	0.0169	3.413	0.5076	0.4837

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1017.7	10.899	1.0709	1010	1025.4
In2306	230.606 {4	Cts/S	18112	438.95	2.4236	17801	18422
Y_2243	224.306 {4	Cts/S	22538	511.92	2.2714	22176	22900
Y_3600	360.073 {	Cts/S	208140	6364.8	3.0579	212640	203640
Y_3710	371.030 {	Cts/S	56705	511.08	0.90131	56343	57066

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLICV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:08:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.005	0.0002	4.975	0.0048	0.0052
Al3082	308.215 {1	In2306	ppm	0.1006	0.0025	2.525	0.0988	0.1024
As1890	189.042 {4	Y_2243	ppm	0.0106	0.0002	1.573	0.0107	0.0105
B_2496	249.678 {1	Y_3710	ppm	0.0099	0.0038	38.5	0.0126	0.0072
Ba4554	455.403 {	Y_3710	ppm	0.01	0.0001	1.425	0.0101	0.0099
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.2121	0.005	0.0051
Ca3158	315.887 {1	In2306	ppm	0.1051	0.0094	8.941	0.1118	0.0985
Ca3181	318.128 {1	In2306	ppm	0.0786	0.0002	0.1915	0.0785	0.0787
Cd2288	228.802 {4	Y_2243	ppm	0.0053	0.0003	5.852	0.0051	0.0055
Co2286	228.616 {4	In2306	ppm	0.0098	0.0003	2.843	0.0096	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0105	0.0001	1.156	0.0105	0.0106
Cu3247	324.754 {1	Y_3600	ppm	0.0115	0.0001	1.234	0.0114	0.0116
Fe2404	240.488 {1	In2306	ppm	0.0998	0.0025	2.492	0.1016	0.0981
K_7664	766.490 {	Y_3710	ppm	0.5888	0.0139	2.365	0.579	0.5986
K_7698	769.896 {	Y_3710	ppm	0.6146	0.0448	7.283	0.5829	0.6462
Li6707	670.784 {	Y_3710	ppm	0.0093	0.0003	3.689	0.0091	0.0096
Mg2790	279.079 {1	Y_3710	ppm	0.1071	0.0065	6.09	0.1025	0.1117
Mn2576	257.610 {1	Y_3600	ppm	0.0104	0.0001	0.7987	0.0104	0.0105
Mn2576-2	257.610 {1	Y_3710	ppm	0.0099	0.0001	0.6943	0.0098	0.0099
Mo2020	202.030 {4	Y_2243	ppm	0.0126	0.0009	7.321	0.012	0.0133
Na5895	589.592 {	Y_3710	ppm	0.5963	0.0042	0.7056	0.5934	0.5993
Na8183	818.326 {	Y_3710	ppm	0.587	0.0697	11.87	0.6362	0.5377
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0003	2.668	0.0099	0.0103
P_1782	178.284 {4	In2306	ppm	0.0099	0.0001	0.6361	0.0099	0.01
Pb2203	220.353 {4	In2306	ppm	0.0096	0.0004	4.122	0.0093	0.0099
S_1820	182.034 {4	Y_2243	ppm	2.122	0.4398	20.72	1.811	2.433
Sb2068	206.833 {4	Y_2243	ppm	0.0117	0.0004	3.436	0.0114	0.012
Se1960	196.090 {4	Y_2243	ppm	0.0125	0.0003	2.781	0.0128	0.0123
Si2516	251.611 {1	Y_3710	ppm	0.0104	0.0012	11.47	0.0096	0.0112
Sn1899	189.989 {4	In2306	ppm	0.0105	0.0004	4.268	0.0102	0.0109
Sr4215	421.552 {	Y_3710	ppm	0.0051	0	0.0339	0.0051	0.0051
Ti3349	334.904 {1	Y_3600	ppm	0.0107	0	0.384	0.0107	0.0107
Tl1908	190.856 {4	In2306	ppm	0.1427	0.0469	32.83	0.1096	0.1759
V_2924	292.402 {1	Y_3600	ppm	0.0106	0.0003	2.408	0.0104	0.0108
Zn2062	206.200 {4	In2306	ppm	0.0102	0.0002	1.822	0.0101	0.0104

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1016.8	4.4185	0.43454	1013.7	1020
In2306	230.606 {4	Cts/S	19630	84.909	0.43256	19690	19570
Y_2243	224.306 {4	Cts/S	23404	69.076	0.29514	23453	23356
Y_3600	360.073 {	Cts/S	204800	3285	1.604	207120	202470
Y_3710	371.030 {	Cts/S	56088	128.5	0.2291	55997	56179

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=ICBIS
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:10:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0002	78.07	0.0005	0.0001
Al3082	308.215 {1	In2306	ppm	-0.012	0.0007	5.589	-0.0115	-0.0124
As1890	189.042 {4	Y_2243	ppm	-0.0001	0.0002	201.9	-0.0002	0
B_2496	249.678 {1	Y_3710	ppm	-0.0061	0.0021	33.99	-0.0076	-0.0047
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	287.1	0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	44.03	0	0
Ca3158	315.887 {1	In2306	ppm	0.0024	0.002	83.51	0.0039	0.001
Ca3181	318.128 {1	In2306	ppm	-0.0298	0.0162	54.56	-0.0183	-0.0413
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0.0001	74.18	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0	0	2550	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0.0002	45.66	0.0005	0.0002
Cu3247	324.754 {1	Y_3600	ppm	0.0011	0.0005	40.83	0.0015	0.0008
Fe2404	240.488 {1	In2306	ppm	-0.0019	0.0032	169.3	-0.0041	0.0004
K_7664	766.490 {	Y_3710	ppm	0.0099	0.0312	315.3	0.0319	-0.0121
K_7698	769.896 {	Y_3710	ppm	0.0044	0.0965	2197	-0.0638	0.0726
Li6707	670.784 {	Y_3710	ppm	-0.001	0.0003	26.26	-0.0008	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	0.0032	0.0075	230.8	-0.002	0.0085
Mn2576	257.610 {1	Y_3600	ppm	0	0	57.79	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0013	0.0001	10.3	-0.0012	-0.0014
Mo2020	202.030 {4	Y_2243	ppm	0.0006	0.0001	23.94	0.0005	0.0007
Na5895	589.592 {	Y_3710	ppm	-0.002	0.005	247.9	0.0015	-0.0055
Na8183	818.326 {	Y_3710	ppm	0.1577	0.0058	3.652	0.1618	0.1536
Ni2316	231.604 {4	In2306	ppm	0	0.0001	433.9	0	0.0001
P_1782	178.284 {4	In2306	ppm	0.0002	0.0003	202	-0.0001	0.0004
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0005	160.3	0.0007	0
S_1820	182.034 {4	Y_2243	ppm	2.428	2.484	102.3	0.6722	4.185
Sb2068	206.833 {4	Y_2243	ppm	-0.0017	0.0005	30.87	-0.0021	-0.0013
Se1960	196.090 {4	Y_2243	ppm	-0.0008	0.0006	79.76	-0.0003	-0.0012
Si2516	251.611 {1	Y_3710	ppm	0.0015	0.0011	72.36	0.0007	0.0022
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0002	272.4	-0.0002	0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0.0001	303	0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	0	0.0002	1618	-0.0001	0.0002
Tl1908	190.856 {4	In2306	ppm	0.0543	0.0224	41.35	0.0384	0.0701
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	216.9	0	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0001	0	34.52	0.0001	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1020.7	7.5318	0.73793	1026	1015.3
In2306	230.606 {4	Cts/S	19574	134.84	0.68886	19669	19479
Y_2243	224.306 {4	Cts/S	23235	172.91	0.74416	23358	23113
Y_3600	360.073 {	Cts/S	205900	928.65	0.45102	205240	206560
Y_3710	371.030 {	Cts/S	56067	201.86	0.36003	56209	55924

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:13:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.001	922.2	-0.0008	0.0006
Al3082	308.215	{1 In2306	ppm	553.2	5.261	0.951	549.5	557
As1890	189.042	{4 Y_2243	ppm	-0.0036	0.0006	16.52	-0.0032	-0.004
B_2496	249.678	{1 Y_3710	ppm	-0.002	0.0026	125.8	-0.0002	-0.0039
Ba4554	455.403	{ 7 Y_3710	ppm	0.0003	0.0002	63.84	0.0002	0.0004
Be3130	313.042	{1 Y_3710	ppm	0	0.0001	834.8	0.0001	-0.0001
Ca3158	315.887	{1 In2306	ppm	518.2	9.846	1.9	511.2	525.1
Ca3181	318.128	{1 In2306	ppm	521.3	5.878	1.128	517.2	525.5
Cd2288	228.802	{4 Y_2243	ppm	0.0005	0	5.314	0.0005	0.0005
Co2286	228.616	{4 In2306	ppm	-0.0005	0.0001	26.73	-0.0006	-0.0004
Cr2677	267.716	{1 Y_3600	ppm	0.0031	0	0.5501	0.0031	0.0031
Cu3247	324.754	{1 Y_3600	ppm	0.0055	0.0006	10.25	0.0059	0.0051
Fe2404	240.488	{1 In2306	ppm	203.4	2.003	0.9849	202	204.8
K_7664	766.490	{ 4 Y_3710	ppm	-0.0212	0.0163	76.53	-0.0097	-0.0327
K_7698	769.896	{ 4 Y_3710	ppm	-0.2845	0.0613	21.54	-0.3279	-0.2412
Li6707	670.784	{ 8 Y_3710	ppm	0.0166	0.0003	2.025	0.0164	0.0169
Mg2790	279.079	{1 Y_3710	ppm	521.1	3.409	0.6542	518.6	523.5
Mn2576	257.610	{1 Y_3600	ppm	-0.0053	0.0001	2.475	-0.0052	-0.0054
Mn2576-2	257.610	{1 Y_3710	ppm	-0.0044	0.0006	13.84	-0.0039	-0.0048
Mo2020	202.030	{4 Y_2243	ppm	-0.0013	0	2.257	-0.0013	-0.0013
Na5895	589.592	{ 8 Y_3710	ppm	0.0252	0.0063	24.78	0.0296	0.0208
Na8183	818.326	{ 4 Y_3710	ppm	0.7975	0.0782	9.807	0.8528	0.7422
Ni2316	231.604	{4 In2306	ppm	0.0089	0.0002	1.846	0.009	0.0088
P_1782	178.284	{4 In2306	ppm	0.0063	0.0015	23.52	0.0074	0.0053
Pb2203	220.353	{4 In2306	ppm	0.0039	0	0.9097	0.004	0.0039
S_1820	182.034	{4 Y_2243	ppm	62.38	0.6656	1.067	61.91	62.85
Sb2068	206.833	{4 Y_2243	ppm	-0.017	0.0006	3.373	-0.0174	-0.0166
Se1960	196.090	{4 Y_2243	ppm	-0.0065	0.0004	5.691	-0.0062	-0.0067
Si2516	251.611	{1 Y_3710	ppm	0.0036	0.0005	13.19	0.0032	0.0039
Sn1899	189.989	{4 In2306	ppm	0.0034	0.0007	20.75	0.0029	0.0039
Sr4215	421.552	{ 8 Y_3710	ppm	0.0024	0.0001	4.813	0.0023	0.0025
Ti3349	334.904	{1 Y_3600	ppm	0.0035	0.0002	5.998	0.0033	0.0036
Tl1908	190.856	{4 In2306	ppm	0.0202	0.0092	45.33	0.0137	0.0267
V_2924	292.402	{1 Y_3600	ppm	-0.0036	0.0002	6.26	-0.0038	-0.0034
Zn2062	206.200	{4 In2306	ppm	0.0094	0.0001	0.9175	0.0095	0.0094

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	877.21	8.8804	1.0123	883.49	870.93
In2306	230.606	{4 Cts/S	13608	14.437	0.10609	13598	13618
Y_2243	224.306	{4 Cts/S	20223	25.898	0.12806	20205	20241
Y_3600	360.073	{ 9 Cts/S	169430	8310.9	4.9052	163550	175310
Y_3710	371.030	{ 9 Cts/S	53405	255.39	0.47822	53585	53224

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:15:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5567	0.0007	0.1234	0.5562	0.5572
Al3082	308.215 {1	In2306	ppm	561	0.6637	0.1183	561.5	560.5
As1890	189.042 {4	Y_2243	ppm	1.008	0.006	0.5962	1.013	1.004
B_2496	249.678 {1	Y_3710	ppm	0.9765	0.001	0.1005	0.9758	0.9772
Ba4554	455.403 {	Y_3710	ppm	0.9865	0.0009	0.0923	0.9871	0.9858
Be3130	313.042 {1	Y_3710	ppm	0.4838	0.0011	0.2222	0.4845	0.483
Ca3158	315.887 {1	In2306	ppm	521.6	3.693	0.7079	519	524.2
Ca3181	318.128 {1	In2306	ppm	527.5	0.175	0.0332	527.4	527.7
Cd2288	228.802 {4	Y_2243	ppm	0.5145	0.0004	0.0707	0.5147	0.5142
Co2286	228.616 {4	In2306	ppm	1.02	0.0029	0.2822	1.022	1.018
Cr2677	267.716 {1	Y_3600	ppm	0.9515	0.0023	0.2434	0.9499	0.9532
Cu3247	324.754 {1	Y_3600	ppm	1.07	0.0027	0.2501	1.068	1.072
Fe2404	240.488 {1	In2306	ppm	212	0.1035	0.0488	211.9	212
K_7664	766.490 {	Y_3710	ppm	10.35	0.0155	0.1498	10.34	10.36
K_7698	769.896 {	Y_3710	ppm	10.14	0.0185	0.1821	10.16	10.13
Li6707	670.784 {	Y_3710	ppm	1.065	0.0014	0.1332	1.066	1.064
Mg2790	279.079 {1	Y_3710	ppm	523.1	1.231	0.2354	524	522.2
Mn2576	257.610 {1	Y_3600	ppm	0.9604	0.002	0.2109	0.9589	0.9618
Mn2576-2	257.610 {1	Y_3710	ppm	0.9398	0.0007	0.0727	0.9394	0.9403
Mo2020	202.030 {4	Y_2243	ppm	0.9403	0.0003	0.0355	0.9405	0.9401
Na5895	589.592 {	Y_3710	ppm	10.39	0.0053	0.0509	10.4	10.39
Na8183	818.326 {	Y_3710	ppm	10.99	0.0383	0.3483	10.96	11.02
Ni2316	231.604 {4	In2306	ppm	1.027	0.0033	0.3249	1.03	1.025
P_1782	178.284 {4	In2306	ppm	1.154	0.0073	0.6369	1.159	1.148
Pb2203	220.353 {4	In2306	ppm	0.9957	0.0008	0.0846	0.9951	0.9963
S_1820	182.034 {4	Y_2243	ppm	59.3	0.8856	1.493	59.93	58.68
Sb2068	206.833 {4	Y_2243	ppm	0.9629	0.0017	0.1728	0.9618	0.9641
Se1960	196.090 {4	Y_2243	ppm	0.9877	0.0003	0.032	0.9875	0.9879
Si2516	251.611 {1	Y_3710	ppm	0.9412	0.0025	0.2678	0.9394	0.943
Sn1899	189.989 {4	In2306	ppm	1.032	0.0027	0.2654	1.034	1.03
Sr4215	421.552 {	Y_3710	ppm	0.4983	0.0009	0.172	0.4989	0.4977
Ti3349	334.904 {1	Y_3600	ppm	0.9853	0.0002	0.0234	0.9855	0.9852
Tl1908	190.856 {4	In2306	ppm	0.8304	0.087	10.48	0.892	0.7689
V_2924	292.402 {1	Y_3600	ppm	0.9672	0.0067	0.6888	0.9625	0.972
Zn2062	206.200 {4	In2306	ppm	1.059	0.0051	0.4805	1.062	1.055

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	877.94	2.9706	0.33836	875.84	880.04
In2306	230.606 {4	Cts/S	13582	20.608	0.15173	13568	13597
Y_2243	224.306 {4	Cts/S	20245	2.6396	0.01304	20243	20247
Y_3600	360.073 {	Cts/S	175070	664.83	0.37974	175540	174600
Y_3710	371.030 {	Cts/S	53877	235.68	0.43745	53710	54044

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:18:14
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2599	0.0141	5.437	0.2699	0.2499
Al3082	308.215 {1	In2306	ppm	2.483	0.0185	0.7449	2.496	2.47
As1890	189.042 {4	Y_2243	ppm	0.4954	0.004	0.7994	0.4982	0.4926
B_2496	249.678 {1	Y_3710	ppm	0.4883	0.0027	0.5535	0.4864	0.4902
Ba4554	455.403 {	Y_3710	ppm	0.4819	0.0023	0.4725	0.4803	0.4835
Be3130	313.042 {1	Y_3710	ppm	0.49	0.0009	0.1917	0.4893	0.4906
Ca3158	315.887 {1	In2306	ppm	12.33	0.0155	0.1257	12.31	12.34
Ca3181	318.128 {1	In2306	ppm	12.08	0.0151	0.1249	12.07	12.09
Cd2288	228.802 {4	Y_2243	ppm	0.4933	0.0026	0.532	0.4952	0.4915
Co2286	228.616 {4	In2306	ppm	0.4845	0.003	0.6091	0.4865	0.4824
Cr2677	267.716 {1	Y_3600	ppm	0.5182	0.0302	5.832	0.5396	0.4968
Cu3247	324.754 {1	Y_3600	ppm	0.5105	0.0295	5.777	0.5313	0.4896
Fe2404	240.488 {1	In2306	ppm	2.473	0.0013	0.0531	2.474	2.472
K_7664	766.490 {	Y_3710	ppm	12.17	0.0563	0.463	12.13	12.21
K_7698	769.896 {	Y_3710	ppm	12.29	0.1038	0.8449	12.22	12.36
Li6707	670.784 {	Y_3710	ppm	0.4899	0.0033	0.6731	0.4875	0.4922
Mg2790	279.079 {1	Y_3710	ppm	4.951	0.0333	0.6736	4.974	4.927
Mn2576	257.610 {1	Y_3600	ppm	0.5242	0.0327	6.235	0.5474	0.5011
Mn2576-2	257.610 {1	Y_3710	ppm	0.4978	0.0017	0.3366	0.4966	0.499
Mo2020	202.030 {4	Y_2243	ppm	0.5135	0.0051	0.991	0.5171	0.5099
Na5895	589.592 {	Y_3710	ppm	12.24	0.084	0.6864	12.19	12.3
Na8183	818.326 {	Y_3710	ppm	12.26	0.2242	1.828	12.11	12.42
Ni2316	231.604 {4	In2306	ppm	0.4883	0.0025	0.5082	0.49	0.4865
P_1782	178.284 {4	In2306	ppm	0.4845	0.0023	0.4722	0.4861	0.4828
Pb2203	220.353 {4	In2306	ppm	0.4842	0.0024	0.4889	0.4859	0.4825
S_1820	182.034 {4	Y_2243	ppm	-821	5.025	0.612	-824.6	-817.4
Sb2068	206.833 {4	Y_2243	ppm	0.4992	0.0023	0.4516	0.5008	0.4976
Se1960	196.090 {4	Y_2243	ppm	0.5004	0.0038	0.7501	0.503	0.4977
Si2516	251.611 {1	Y_3710	ppm	0.9056	0.0038	0.4169	0.9083	0.903
Sn1899	189.989 {4	In2306	ppm	0.4922	0.002	0.4105	0.4937	0.4908
Sr4215	421.552 {	Y_3710	ppm	0.2461	0.0006	0.2333	0.2457	0.2465
Ti3349	334.904 {1	Y_3600	ppm	0.5145	0.0293	5.698	0.5352	0.4938
Tl1908	190.856 {4	In2306	ppm	0.5294	0.0075	1.426	0.5347	0.524
V_2924	292.402 {1	Y_3600	ppm	0.5162	0.0295	5.717	0.5371	0.4954
Zn2062	206.200 {4	In2306	ppm	0.4804	0.0019	0.3976	0.4817	0.479

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1012.9	1.5487	0.15289	1011.8	1014
In2306	230.606 {4	Cts/S	18426	53.819	0.29209	18388	18464
Y_2243	224.306 {4	Cts/S	22782	77.698	0.34105	22727	22837
Y_3600	360.073 {	Cts/S	195980	8295.8	4.2329	190120	201850
Y_3710	371.030 {	Cts/S	56497	89.272	0.15801	56434	56560

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:20:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0051	0	0.8452	0.005	0.0051
Al3082	308.215 {1	In2306	ppm	0.1172	0.0048	4.132	0.1206	0.1138
As1890	189.042 {4	Y_2243	ppm	0.0101	0	0.2905	0.0101	0.0101
B_2496	249.678 {1	Y_3710	ppm	0.0089	0.0036	39.92	0.0114	0.0064
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	0.9627	0.0098	0.01
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.8003	0.005	0.005
Ca3158	315.887 {1	In2306	ppm	0.1244	0.0009	0.7213	0.125	0.1237
Ca3181	318.128 {1	In2306	ppm	0.1079	0.0145	13.44	0.0977	0.1182
Cd2288	228.802 {4	Y_2243	ppm	0.0054	0	0.784	0.0054	0.0055
Co2286	228.616 {4	In2306	ppm	0.01	0.0001	1.061	0.0101	0.0099
Cr2677	267.716 {1	Y_3600	ppm	0.0104	0	0.3711	0.0104	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0118	0.0001	0.5516	0.0118	0.0119
Fe2404	240.488 {1	In2306	ppm	0.1035	0.0029	2.784	0.1055	0.1014
K_7664	766.490 {	Y_3710	ppm	0.6058	0.0111	1.826	0.598	0.6136
K_7698	769.896 {	Y_3710	ppm	0.562	0.0026	0.4582	0.5601	0.5638
Li6707	670.784 {	Y_3710	ppm	0.0091	0.0003	3.725	0.0093	0.0088
Mg2790	279.079 {1	Y_3710	ppm	0.1186	0.0122	10.3	0.11	0.1272
Mn2576	257.610 {1	Y_3600	ppm	0.0104	0	0.4694	0.0105	0.0104
Mn2576-2	257.610 {1	Y_3710	ppm	0.0101	0.0006	6.098	0.0105	0.0096
Mo2020	202.030 {4	Y_2243	ppm	0.0127	0.0003	2.584	0.0125	0.013
Na5895	589.592 {	Y_3710	ppm	0.6034	0	0.0004	0.6034	0.6034
Na8183	818.326 {	Y_3710	ppm	0.7215	0.2722	37.72	0.9139	0.529
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0002	2.359	0.0102	0.0099
P_1782	178.284 {4	In2306	ppm	0.0098	0.0008	7.804	0.0104	0.0093
Pb2203	220.353 {4	In2306	ppm	0.011	0.0004	3.882	0.0107	0.0113
S_1820	182.034 {4	Y_2243	ppm	0.9926	2.386	240.4	-0.6948	2.68
Sb2068	206.833 {4	Y_2243	ppm	0.0132	0.0005	3.838	0.0128	0.0135
Se1960	196.090 {4	Y_2243	ppm	0.0121	0.0006	4.963	0.0125	0.0116
Si2516	251.611 {1	Y_3710	ppm	0.0078	0.0012	14.82	0.0086	0.007
Sn1899	189.989 {4	In2306	ppm	0.0104	0.0001	1.149	0.0103	0.0105
Sr4215	421.552 {	Y_3710	ppm	0.0051	0	0.0411	0.0051	0.0051
Ti3349	334.904 {1	Y_3600	ppm	0.0105	0.0003	2.645	0.0103	0.0107
Tl1908	190.856 {4	In2306	ppm	0.1015	0.0264	25.96	0.0829	0.1202
V_2924	292.402 {1	Y_3600	ppm	0.0101	0.0002	2.156	0.0099	0.0102
Zn2062	206.200 {4	In2306	ppm	0.0102	0.0002	1.616	0.0103	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1022.4	4.1623	0.40709	1025.4	1019.5
In2306	230.606 {4	Cts/S	19128	476.92	2.4933	18791	19465
Y_2243	224.306 {4	Cts/S	22648	560.33	2.4741	22252	23044
Y_3600	360.073 {	Cts/S	205290	189.41	0.09226	205160	205430
Y_3710	371.030 {	Cts/S	56241	349.19	0.62088	56488	55994

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:22:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0004	0.0002	51.67	-0.0005	-0.0002
Al3082	308.215 {1	In2306	ppm	0.0047	0.0115	242.4	-0.0034	0.0129
As1890	189.042 {4	Y_2243	ppm	-0.0003	0.0007	237.1	0.0002	-0.0008
B_2496	249.678 {1	Y_3710	ppm	-0.003	0.0009	29.6	-0.0037	-0.0024
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0003	292.4	-0.0003	0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	2312	0	0
Ca3158	315.887 {1	In2306	ppm	0.0052	0.0146	280.1	0.0155	-0.0051
Ca3181	318.128 {1	In2306	ppm	-0.0058	0.0013	23.09	-0.0068	-0.0049
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0.0001	67.29	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0.0001	0.0001	151.6	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	59.92	0.0002	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0018	0.0008	44.33	0.0012	0.0024
Fe2404	240.488 {1	In2306	ppm	0.004	0.0002	4.274	0.0041	0.0039
K_7664	766.490 {	Y_3710	ppm	0.0143	0.0398	277.7	-0.0138	0.0424
K_7698	769.896 {	Y_3710	ppm	0.0251	0.0295	117.9	0.0042	0.046
Li6707	670.784 {	Y_3710	ppm	0	0.001	2376	-0.0007	0.0008
Mg2790	279.079 {1	Y_3710	ppm	-0.0084	0.0053	63.05	-0.0046	-0.0121
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	100.5	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0003	0.0002	57.11	-0.0002	-0.0004
Mo2020	202.030 {4	Y_2243	ppm	0.0003	0	9.096	0.0003	0.0003
Na5895	589.592 {	Y_3710	ppm	-0.0015	0.0043	284.4	0.0015	-0.0046
Na8183	818.326 {	Y_3710	ppm	0.1835	0.1096	59.76	0.261	0.1059
Ni2316	231.604 {4	In2306	ppm	0.0001	0.0001	96.28	0.0002	0
P_1782	178.284 {4	In2306	ppm	0.0007	0.0003	39.18	0.0005	0.0009
Pb2203	220.353 {4	In2306	ppm	0.0002	0.0003	124.2	0.0004	0
S_1820	182.034 {4	Y_2243	ppm	3.651	0.9478	25.96	2.98	4.321
Sb2068	206.833 {4	Y_2243	ppm	0.0004	0.0008	192.9	-0.0001	0.001
Se1960	196.090 {4	Y_2243	ppm	0.0009	0.0003	39.37	0.0006	0.0011
Si2516	251.611 {1	Y_3710	ppm	0.0026	0.002	75.78	0.004	0.0012
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0001	53.54	-0.0003	-0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0.0001	2463	0.0001	-0.0001
Ti3349	334.904 {1	Y_3600	ppm	0.0002	0.0001	52.76	0.0001	0.0002
Tl1908	190.856 {4	In2306	ppm	0.0334	0.0129	38.53	0.0243	0.0425
V_2924	292.402 {1	Y_3600	ppm	0.0001	0	35.73	0.0001	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0001	0.0001	99.59	0.0001	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	985.56	37.656	3.8208	1012.2	958.93
In2306	230.606 {4	Cts/S	19567	22.043	0.11265	19552	19583
Y_2243	224.306 {4	Cts/S	23026	0.25231	0.0011	23026	23026
Y_3600	360.073 {	Cts/S	209440	6559.5	3.132	204800	214070
Y_3710	371.030 {	Cts/S	54406	2064.5	3.7946	55866	52946

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=mb 600-88024/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:25:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0004	0	8.935	-0.0004	-0.0005
Al3082	308.215 {1	In2306	ppm	0.0087	0.0118	135.5	0.0171	0.0004
As1890	189.042 {4	Y_2243	ppm	0.0004	0.0004	98.98	0.0001	0.0007
B_2496	249.678 {1	Y_3710	ppm	-0.0052	0.0016	31.16	-0.0064	-0.0041
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0.0001	31.27	-0.0001	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	1097	0	0
Ca3158	315.887 {1	In2306	ppm	-0.0021	0.0063	306.4	0.0024	-0.0065
Ca3181	318.128 {1	In2306	ppm	-0.0333	0.0079	23.8	-0.0389	-0.0277
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	0.4356	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0.0001	0	72.71	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0.0001	26.85	0.0002	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0023	0.0001	2.375	0.0023	0.0022
Fe2404	240.488 {1	In2306	ppm	0.0031	0.0007	21.18	0.0036	0.0027
K_7664	766.490 {	Y_3710	ppm	-0.0017	0.0032	190.7	0.0006	-0.004
K_7698	769.896 {	Y_3710	ppm	-0.0807	0.0165	20.5	-0.069	-0.0924
Li6707	670.784 {	Y_3710	ppm	-0.0017	0.0007	43.51	-0.0012	-0.0022
Mg2790	279.079 {1	Y_3710	ppm	-0.0118	0.0205	174.5	-0.0263	0.0028
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	215.8	0	-0.0002
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0007	0.0007	108.1	-0.0002	-0.0012
Mo2020	202.030 {4	Y_2243	ppm	0.0002	0.0001	66.76	0.0003	0.0001
Na5895	589.592 {	Y_3710	ppm	-0.0027	0.0006	23.21	-0.0022	-0.0031
Na8183	818.326 {	Y_3710	ppm	-0.0252	0.0755	299.5	0.0282	-0.0786
Ni2316	231.604 {4	In2306	ppm	0	0.0003	939.8	0.0002	-0.0002
P_1782	178.284 {4	In2306	ppm	0.0005	0.0013	286.1	-0.0005	0.0014
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0004	85.12	0.0008	0.0002
S_1820	182.034 {4	Y_2243	ppm	4.102	1.234	30.1	3.229	4.974
Sb2068	206.833 {4	Y_2243	ppm	-0.002	0.001	46.49	-0.0027	-0.0014
Se1960	196.090 {4	Y_2243	ppm	0.0009	0.0005	59.38	0.0005	0.0012
Si2516	251.611 {1	Y_3710	ppm	0.0067	0.002	30.23	0.0081	0.0053
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0003	321.9	0.0003	-0.0001
Sr4215	421.552 {	Y_3710	ppm	0	0	76.43	0.0001	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0002	0.0002	123.9	0	-0.0003
Tl1908	190.856 {4	In2306	ppm	0.0125	0.0065	52.02	0.0079	0.0171
V_2924	292.402 {1	Y_3600	ppm	0.0001	0	45.49	0	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0036	0.0001	2.467	0.0035	0.0037

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1025.7	21.888	2.1339	1041.2	1010.2
In2306	230.606 {4	Cts/S	19856	276.82	1.3941	20052	19660
Y_2243	224.306 {4	Cts/S	23312	326.85	1.4021	23543	23081
Y_3600	360.073 {	Cts/S	205090	730.96	0.35642	205600	204570
Y_3710	371.030 {	Cts/S	57117	1501.2	2.6283	58178	56055

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=lcs 600-88024/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:27:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5285	0.0047	0.8978	0.5318	0.5251
Al3082	308.215 {1	In2306	ppm	10.24	0.0011	0.0107	10.24	10.24
As1890	189.042 {4	Y_2243	ppm	1.039	0.0021	0.2015	1.04	1.037
B_2496	249.678 {1	Y_3710	ppm	1.015	0.0043	0.4271	1.018	1.012
Ba4554	455.403 {	Y_3710	ppm	1.02	0.0007	0.0733	1.021	1.02
Be3130	313.042 {1	Y_3710	ppm	0.5147	0.0022	0.4338	0.5163	0.5131
Ca3158	315.887 {1	In2306	ppm	10.49	0.0383	0.365	10.47	10.52
Ca3181	318.128 {1	In2306	ppm	10.17	0.0325	0.3196	10.15	10.19
Cd2288	228.802 {4	Y_2243	ppm	0.5162	0	0.0046	0.5161	0.5162
Co2286	228.616 {4	In2306	ppm	1.016	0	0.0045	1.016	1.016
Cr2677	267.716 {1	Y_3600	ppm	1.029	0.0012	0.121	1.029	1.028
Cu3247	324.754 {1	Y_3600	ppm	1.045	0.0049	0.4716	1.049	1.042
Fe2404	240.488 {1	In2306	ppm	10.27	0.012	0.1167	10.28	10.26
K_7664	766.490 {	Y_3710	ppm	10.21	0.0316	0.3092	10.23	10.18
K_7698	769.896 {	Y_3710	ppm	10.27	0.0746	0.7266	10.32	10.21
Li6707	670.784 {	Y_3710	ppm	0.517	0.0017	0.3237	0.5182	0.5159
Mg2790	279.079 {1	Y_3710	ppm	10.15	0.0297	0.2925	10.18	10.13
Mn2576	257.610 {1	Y_3600	ppm	1.063	0.0025	0.2344	1.061	1.064
Mn2576-2	257.610 {1	Y_3710	ppm	1.051	0.0023	0.2233	1.052	1.049
Mo2020	202.030 {4	Y_2243	ppm	1.077	0.0022	0.2031	1.079	1.075
Na5895	589.592 {	Y_3710	ppm	10.32	0.0099	0.0958	10.32	10.31
Na8183	818.326 {	Y_3710	ppm	10.57	0.0961	0.9084	10.64	10.51
Ni2316	231.604 {4	In2306	ppm	1.023	0.001	0.0995	1.024	1.022
P_1782	178.284 {4	In2306	ppm	0.0009	0.0005	52.94	0.0006	0.0012
Pb2203	220.353 {4	In2306	ppm	1.017	0.0003	0.034	1.017	1.017
S_1820	182.034 {4	Y_2243	ppm	5.518	0.2774	5.028	5.321	5.714
Sb2068	206.833 {4	Y_2243	ppm	1.031	0.0022	0.2109	1.033	1.03
Se1960	196.090 {4	Y_2243	ppm	1.047	0.0005	0.043	1.047	1.046
Si2516	251.611 {1	Y_3710	ppm	0.9487	0.0003	0.0337	0.9489	0.9484
Sn1899	189.989 {4	In2306	ppm	1.026	0.0014	0.1348	1.027	1.025
Sr4215	421.552 {	Y_3710	ppm	0.5213	0.0013	0.2528	0.5222	0.5204
Ti3349	334.904 {1	Y_3600	ppm	1.027	0.0031	0.3022	1.029	1.024
Tl1908	190.856 {4	In2306	ppm	0.9504	0.0892	9.38	1.013	0.8874
V_2924	292.402 {1	Y_3600	ppm	1.028	0.0014	0.1376	1.029	1.027
Zn2062	206.200 {4	In2306	ppm	0.9992	0.0006	0.0621	0.9996	0.9987

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1002.2	3.9756	0.39669	1005	999.38
In2306	230.606 {4	Cts/S	18212	38.563	0.21174	18239	18185
Y_2243	224.306 {4	Cts/S	22658	52.799	0.23302	22696	22621
Y_3600	360.073 {	Cts/S	202020	539.55	0.26707	202400	201640
Y_3710	371.030 {	Cts/S	56713	183.67	0.32386	56843	56583

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=lb 600-87972/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:29:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0003	90.82	-0.0001	-0.0005
Al3082	308.215 {1	In2306	ppm	0.0079	0.0063	80.24	0.0034	0.0123
As1890	189.042 {4	Y_2243	ppm	0.0009	0.001	110.7	0.0002	0.0017
B_2496	249.678 {1	Y_3710	ppm	0.0123	0.0018	14.35	0.0135	0.011
Ba4554	455.403 {	Y_3710	ppm	0.0034	0	0.5601	0.0034	0.0034
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	24.97	0.0001	0.0001
Ca3158	315.887 {1	In2306	ppm	0.2597	0.0087	3.334	0.2658	0.2536
Ca3181	318.128 {1	In2306	ppm	0.221	0.0094	4.272	0.2277	0.2144
Cd2288	228.802 {4	Y_2243	ppm	0.0005	0.0005	93.27	0.0002	0.0009
Co2286	228.616 {4	In2306	ppm	0.0008	0.0011	138.7	0	0.0016
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0002	101.1	0.0003	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0026	0	0.8657	0.0026	0.0027
Fe2404	240.488 {1	In2306	ppm	0.0157	0.0014	8.815	0.0147	0.0167
K_7664	766.490 {	Y_3710	ppm	-0.0083	0.0045	53.54	-0.0115	-0.0052
K_7698	769.896 {	Y_3710	ppm	-0.037	0.0274	73.96	-0.0563	-0.0176
Li6707	670.784 {	Y_3710	ppm	-0.0008	0.0003	40.6	-0.001	-0.0006
Mg2790	279.079 {1	Y_3710	ppm	-0.0047	0.0054	113.6	-0.0085	-0.0009
Mn2576	257.610 {1	Y_3600	ppm	0	0.0002	378.9	0.0002	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0	0	718.9	0	0
Mo2020	202.030 {4	Y_2243	ppm	0.0048	0.0023	47.66	0.0032	0.0064
Na5895	589.592 {	Y_3710	ppm	29.77	0.0697	0.2342	29.72	29.82
Na8183	818.326 {	Y_3710	ppm	29.7	0.0167	0.0561	29.71	29.69
Ni2316	231.604 {4	In2306	ppm	0.0008	0.0012	160.9	-0.0001	0.0016
P_1782	178.284 {4	In2306	ppm	0.0347	0.0003	0.9996	0.035	0.0345
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0012	165.1	-0.0001	0.0016
S_1820	182.034 {4	Y_2243	ppm	3.272	0.0234	0.7139	3.289	3.256
Sb2068	206.833 {4	Y_2243	ppm	0.0039	0.0035	89.91	0.0014	0.0064
Se1960	196.090 {4	Y_2243	ppm	0.0018	0.0006	33.07	0.0014	0.0022
Si2516	251.611 {1	Y_3710	ppm	0.0094	0.0001	1.425	0.0095	0.0093
Sn1899	189.989 {4	In2306	ppm	0.0016	0.0017	104.5	0.0004	0.0028
Sr4215	421.552 {	Y_3710	ppm	0.0003	0	12.41	0.0003	0.0004
Ti3349	334.904 {1	Y_3600	ppm	0.0007	0.0002	25.79	0.0009	0.0006
Tl1908	190.856 {4	In2306	ppm	0.1133	0.0351	31.02	0.0884	0.1381
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0001	70.72	0.0002	0.0001
Zn2062	206.200 {4	In2306	ppm	0.0056	0.0011	18.88	0.0049	0.0064

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1012.7	6.4759	0.63947	1008.1	1017.3
In2306	230.606 {4	Cts/S	18624	0.90652	0.00487	18624	18623
Y_2243	224.306 {4	Cts/S	22448	16.555	0.07375	22437	22460
Y_3600	360.073 {	Cts/S	200630	164.76	0.08212	200510	200740
Y_3710	371.030 {	Cts/S	56550	317.52	0.56148	56326	56775

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60811-b-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:32:17
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0.0005	238.3	-0.0006	0.0002
Al3082	308.215	{1 In2306	ppm	0.0008	0.0163	2111	0.0123	-0.0107
As1890	189.042	{4 Y_2243	ppm	0.6031	0.0011	0.1785	0.6024	0.6039
B_2496	249.678	{1 Y_3710	ppm	0.0927	0.0007	0.7954	0.0932	0.0922
Ba4554	455.403	{ 7 Y_3710	ppm	0.0123	0.0005	3.915	0.0119	0.0126
Be3130	313.042	{1 Y_3710	ppm	0	0	255.9	0	0
Ca3158	315.887	{1 In2306	ppm	4.118	0.131	3.181	4.026	4.211
Ca3181	318.128	{1 In2306	ppm	3.964	0.1359	3.428	3.867	4.06
Cd2288	228.802	{4 Y_2243	ppm	-0.0015	0	2.567	-0.0015	-0.0014
Co2286	228.616	{4 In2306	ppm	0.0011	0.0001	6.713	0.001	0.0011
Cr2677	267.716	{1 Y_3600	ppm	0.001	0.0001	8.848	0.0009	0.001
Cu3247	324.754	{1 Y_3600	ppm	0.0039	0.0005	12.05	0.0043	0.0036
Fe2404	240.488	{1 In2306	ppm	214.5	6.013	2.804	210.2	218.7
K_7664	766.490	{ 4 Y_3710	ppm	1.533	0.0658	4.29	1.486	1.579
K_7698	769.896	{ 4 Y_3710	ppm	1.608	0.0544	3.38	1.57	1.647
Li6707	670.784	{ 8 Y_3710	ppm	0.0001	0.0003	260.1	-0.0001	0.0003
Mg2790	279.079	{1 Y_3710	ppm	0.3894	0.0039	0.9932	0.3867	0.3921
Mn2576	257.610	{1 Y_3600	ppm	2.261	0.0655	2.899	2.307	2.214
Mn2576-2	257.610	{1 Y_3710	ppm	2.204	0.0824	3.739	2.146	2.263
Mo2020	202.030	{4 Y_2243	ppm	-0.001	0	3.005	-0.001	-0.001
Na5895	589.592	{ 8 Y_3710	ppm	13.18	0.39	2.958	12.91	13.46
Na8183	818.326	{ 4 Y_3710	ppm	13.98	0.6135	4.389	13.54	14.41
Ni2316	231.604	{4 In2306	ppm	0.0139	0.0003	1.912	0.0137	0.014
P_1782	178.284	{4 In2306	ppm	0.0358	0.0015	4.165	0.0347	0.0368
Pb2203	220.353	{4 In2306	ppm	0.0011	0.0002	15.41	0.0012	0.001
S_1820	182.034	{4 Y_2243	ppm	-4384	10.86	0.2477	-4377	-4392
Sb2068	206.833	{4 Y_2243	ppm	0.0025	0.0011	44.7	0.0017	0.0033
Se1960	196.090	{4 Y_2243	ppm	0.0037	0	0.0319	0.0037	0.0037
Si2516	251.611	{1 Y_3710	ppm	0.3749	0.0107	2.842	0.3673	0.3824
Sn1899	189.989	{4 In2306	ppm	0.0031	0.0003	9.457	0.0033	0.0029
Sr4215	421.552	{ 8 Y_3710	ppm	0.0219	0.0007	3.369	0.0214	0.0224
Ti3349	334.904	{1 Y_3600	ppm	-0.0005	0.0001	12.95	-0.0004	-0.0005
Tl1908	190.856	{4 In2306	ppm	0.0376	0.0191	50.72	0.0241	0.0511
V_2924	292.402	{1 Y_3600	ppm	0.0005	0.0001	15.25	0.0004	0.0005
Zn2062	206.200	{4 In2306	ppm	0.0753	0.0002	0.2046	0.0752	0.0754

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	992.6	19.307	1.9451	1006.2	978.94
In2306	230.606	{4 Cts/S	18018	55.113	0.30587	18057	17979
Y_2243	224.306	{4 Cts/S	22035	49.838	0.22617	22070	22000
Y_3600	360.073	{ 9 Cts/S	196310	4152.9	2.1155	193370	199250
Y_3710	371.030	{ 9 Cts/S	55570	1470.1	2.6455	56610	54531

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60811-b-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:34:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5353	0.0038	0.7123	0.538	0.5326
Al3082	308.215	{1 In2306	ppm	10.26	0.0342	0.3333	10.28	10.23
As1890	189.042	{4 Y_2243	ppm	1.658	0.0078	0.4702	1.664	1.653
B_2496	249.678	{1 Y_3710	ppm	1.11	0.009	0.8076	1.104	1.117
Ba4554	455.403	{ 7 Y_3710	ppm	1.033	0.0007	0.0662	1.033	1.034
Be3130	313.042	{1 Y_3710	ppm	0.5194	0.0016	0.3123	0.5182	0.5205
Ca3158	315.887	{1 In2306	ppm	15.04	0.0122	0.0811	15.05	15.03
Ca3181	318.128	{1 In2306	ppm	14.54	0.0507	0.349	14.58	14.5
Cd2288	228.802	{4 Y_2243	ppm	0.515	0.0027	0.5209	0.5169	0.5131
Co2286	228.616	{4 In2306	ppm	1.011	0.0037	0.3638	1.014	1.008
Cr2677	267.716	{1 Y_3600	ppm	1.03	0.0026	0.2484	1.032	1.028
Cu3247	324.754	{1 Y_3600	ppm	1.061	0.0011	0.1053	1.062	1.06
Fe2404	240.488	{1 In2306	ppm	237.6	0.5227	0.22	238	237.3
K_7664	766.490	{ 4 Y_3710	ppm	12.01	0.0482	0.4014	11.98	12.05
K_7698	769.896	{ 4 Y_3710	ppm	12.24	0.0162	0.1324	12.23	12.26
Li6707	670.784	{ 8 Y_3710	ppm	0.5274	0.0017	0.3294	0.5261	0.5286
Mg2790	279.079	{1 Y_3710	ppm	10.68	0.0182	0.1706	10.66	10.69
Mn2576	257.610	{1 Y_3600	ppm	3.385	0.0255	0.7542	3.403	3.367
Mn2576-2	257.610	{1 Y_3710	ppm	3.387	0.0077	0.2279	3.382	3.393
Mo2020	202.030	{4 Y_2243	ppm	1.061	0.0056	0.5294	1.065	1.057
Na5895	589.592	{ 8 Y_3710	ppm	24.4	0.0177	0.0724	24.38	24.41
Na8183	818.326	{ 4 Y_3710	ppm	25.03	0.0557	0.2227	24.99	25.07
Ni2316	231.604	{4 In2306	ppm	1.034	0.0049	0.4731	1.038	1.031
P_1782	178.284	{4 In2306	ppm	0.0369	0.0012	3.251	0.0361	0.0378
Pb2203	220.353	{4 In2306	ppm	0.9992	0.005	0.5034	1.003	0.9956
S_1820	182.034	{4 Y_2243	ppm	-4491	23.51	0.5234	-4508	-4475
Sb2068	206.833	{4 Y_2243	ppm	1.016	0.0069	0.6796	1.021	1.012
Se1960	196.090	{4 Y_2243	ppm	1.059	0.0012	0.115	1.058	1.06
Si2516	251.611	{1 Y_3710	ppm	1.351	0.0051	0.3765	1.348	1.355
Sn1899	189.989	{4 In2306	ppm	1.023	0.0056	0.5481	1.027	1.019
Sr4215	421.552	{ 8 Y_3710	ppm	0.5486	0.002	0.3625	0.5472	0.55
Ti3349	334.904	{1 Y_3600	ppm	1.025	0.0017	0.1686	1.026	1.023
Tl1908	190.856	{4 In2306	ppm	0.7847	0.0573	7.304	0.8253	0.7442
V_2924	292.402	{1 Y_3600	ppm	1.024	0.0028	0.2779	1.026	1.022
Zn2062	206.200	{4 In2306	ppm	1.079	0.0064	0.5889	1.084	1.075

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	965.22	2.8527	0.29555	963.21	967.24
In2306	230.606	{4 Cts/S	17396	24.532	0.14102	17379	17413
Y_2243	224.306	{4 Cts/S	22050	30.359	0.13768	22029	22072
Y_3600	360.073	{ 9 Cts/S	194220	64.024	0.03296	194180	194270
Y_3710	371.030	{ 9 Cts/S	54431	66.396	0.12198	54384	54478

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60654-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:36:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0001	0.0003	261.9	-0.0004	0.0001
Al3082	308.215 {1	In2306	ppm	0.017	0.0202	118.9	0.0027	0.0313
As1890	189.042 {4	Y_2243	ppm	0.005	0.0054	106.4	0.0012	0.0088
B_2496	249.678 {1	Y_3710	ppm	0.015	0.0005	3.362	0.0146	0.0154
Ba4554	455.403 {	Y_3710	ppm	0.0116	0.0001	0.5232	0.0116	0.0116
Be3130	313.042 {1	Y_3710	ppm	0.0001	0	20.25	0.0001	0
Ca3158	315.887 {1	In2306	ppm	7.103	0.005	0.0707	7.106	7.099
Ca3181	318.128 {1	In2306	ppm	6.832	0.0007	0.0099	6.832	6.831
Cd2288	228.802 {4	Y_2243	ppm	0.0015	0.0018	117	0.0003	0.0028
Co2286	228.616 {4	In2306	ppm	0.0028	0.0037	131.2	0.0002	0.0054
Cr2677	267.716 {1	Y_3600	ppm	0.0007	0.0001	9.044	0.0008	0.0007
Cu3247	324.754 {1	Y_3600	ppm	0.0034	0	0.8632	0.0034	0.0034
Fe2404	240.488 {1	In2306	ppm	0.0509	0.013	25.58	0.0601	0.0417
K_7664	766.490 {	Y_3710	ppm	0.0568	0.0122	21.51	0.0654	0.0481
K_7698	769.896 {	Y_3710	ppm	0.0592	0.0534	90.09	0.097	0.0215
Li6707	670.784 {	Y_3710	ppm	-0.0006	0.0001	22.69	-0.0007	-0.0005
Mg2790	279.079 {1	Y_3710	ppm	0.046	0.0074	16.11	0.0512	0.0407
Mn2576	257.610 {1	Y_3600	ppm	0.0028	0	1.227	0.0027	0.0028
Mn2576-2	257.610 {1	Y_3710	ppm	0.0025	0	1.352	0.0025	0.0025
Mo2020	202.030 {4	Y_2243	ppm	0.0071	0.0056	78.85	0.0031	0.011
Na5895	589.592 {	Y_3710	ppm	150	1.291	0.8609	149.1	150.9
Na8183	818.326 {	Y_3710	ppm	154.9	0.0186	0.012	154.9	154.9
Ni2316	231.604 {4	In2306	ppm	0.0051	0.0039	76.26	0.0023	0.0078
P_1782	178.284 {4	In2306	ppm	0.1847	0.0014	0.779	0.1858	0.1837
Pb2203	220.353 {4	In2306	ppm	0.0033	0.0016	50.36	0.0021	0.0044
S_1820	182.034 {4	Y_2243	ppm	-21.86	9.444	43.2	-15.18	-28.54
Sb2068	206.833 {4	Y_2243	ppm	0.0053	0.0049	93.89	0.0018	0.0088
Se1960	196.090 {4	Y_2243	ppm	0.0039	0.0011	27.37	0.0032	0.0047
Si2516	251.611 {1	Y_3710	ppm	0.34	0.0011	0.3217	0.3392	0.3407
Sn1899	189.989 {4	In2306	ppm	0.0058	0.005	87.08	0.0022	0.0093
Sr4215	421.552 {	Y_3710	ppm	0.0045	0	0.0906	0.0045	0.0045
Ti3349	334.904 {1	Y_3600	ppm	0.0004	0.0001	25.66	0.0004	0.0005
Tl1908	190.856 {4	In2306	ppm	0.1217	0.0116	9.528	0.1135	0.1299
V_2924	292.402 {1	Y_3600	ppm	-0.0003	0.0002	81.98	-0.0004	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.012	0.0036	30.29	0.0095	0.0146

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	974.55	4.6056	0.47259	971.29	977.81
In2306	230.606 {4	Cts/S	17049	12.521	0.07344	17040	17058
Y_2243	224.306 {4	Cts/S	21652	21.928	0.10128	21667	21636
Y_3600	360.073 {	Cts/S	191300	479.65	0.25073	190960	191640
Y_3710	371.030 {	Cts/S	54637	87.621	0.16037	54575	54699

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60654-a-1-d ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:39:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.541	0	0.0015	0.541	0.541
Al3082	308.215	{1 In2306	ppm	10.1	0.0099	0.0981	10.09	10.1
As1890	189.042	{4 Y_2243	ppm	1.06	0.0112	1.055	1.068	1.052
B_2496	249.678	{1 Y_3710	ppm	1.016	0.0075	0.7415	1.011	1.022
Ba4554	455.403	{ ï Y_3710	ppm	1.011	0.0022	0.2144	1.01	1.013
Be3130	313.042	{1 Y_3710	ppm	0.5082	0.0006	0.1091	0.5078	0.5086
Ca3158	315.887	{1 In2306	ppm	17.23	0.0777	0.4508	17.17	17.28
Ca3181	318.128	{1 In2306	ppm	16.58	0.0529	0.319	16.62	16.55
Cd2288	228.802	{4 Y_2243	ppm	0.5198	0.0028	0.5341	0.5218	0.5179
Co2286	228.616	{4 In2306	ppm	1.007	0.0042	0.4214	1.01	1.004
Cr2677	267.716	{1 Y_3600	ppm	0.9963	0.0005	0.0535	0.9966	0.9959
Cu3247	324.754	{1 Y_3600	ppm	1.049	0.0074	0.7055	1.044	1.054
Fe2404	240.488	{1 In2306	ppm	10.04	0.0192	0.1913	10.06	10.03
K_7664	766.490	{ ⁄ Y_3710	ppm	10.36	0.0021	0.0201	10.37	10.36
K_7698	769.896	{ ⁄ Y_3710	ppm	10.5	0.0082	0.0784	10.51	10.49
Li6707	670.784	{ ‡ Y_3710	ppm	0.5192	0.0023	0.4429	0.5176	0.5209
Mg2790	279.079	{1 Y_3710	ppm	9.755	0.023	0.2357	9.771	9.738
Mn2576	257.610	{1 Y_3600	ppm	1.033	0.0006	0.0538	1.033	1.032
Mn2576-2	257.610	{1 Y_3710	ppm	1.029	0.0033	0.3221	1.026	1.031
Mo2020	202.030	{4 Y_2243	ppm	1.05	0.0058	0.5569	1.054	1.046
Na5895	589.592	{ ‡ Y_3710	ppm	159.5	0.6703	0.4202	160	159
Na8183	818.326	{ ⁄ Y_3710	ppm	162	0.6024	0.3719	161.5	162.4
Ni2316	231.604	{4 In2306	ppm	1.022	0.0059	0.5726	1.026	1.018
P_1782	178.284	{4 In2306	ppm	0.1826	0.0015	0.8334	0.1815	0.1837
Pb2203	220.353	{4 In2306	ppm	0.9994	0.0031	0.3145	1.002	0.9972
S_1820	182.034	{4 Y_2243	ppm	-10.65	0.1653	1.552	-10.53	-10.77
Sb2068	206.833	{4 Y_2243	ppm	1.037	0.0022	0.2093	1.039	1.036
Se1960	196.090	{4 Y_2243	ppm	1.083	0.0053	0.4904	1.087	1.079
Si2516	251.611	{1 Y_3710	ppm	1.241	0.0025	0.2033	1.239	1.243
Sn1899	189.989	{4 In2306	ppm	1.029	0.004	0.3845	1.031	1.026
Sr4215	421.552	{ ‡ Y_3710	ppm	0.5198	0.0021	0.401	0.5183	0.5213
Ti3349	334.904	{1 Y_3600	ppm	1.006	0.0017	0.1646	1.005	1.007
Tl1908	190.856	{4 In2306	ppm	0.7719	0.0782	10.14	0.8272	0.7166
V_2924	292.402	{1 Y_3600	ppm	1.003	0.0029	0.2886	1.001	1.005
Zn2062	206.200	{4 In2306	ppm	1.013	0.0051	0.5007	1.017	1.01

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	986.72	1.2719	0.1289	985.82	987.62
In2306	230.606	{4 Cts/S	16678	12.503	0.07497	16669	16687
Y_2243	224.306	{4 Cts/S	21630	22.704	0.10497	21614	21646
Y_3600	360.073	{ ‡ Cts/S	192320	321.82	0.16733	192550	192100
Y_3710	371.030	{ ‡ Cts/S	56175	23.498	0.04183	56159	56192

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=lb 600-87973/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:41:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0003	0	13.49	0.0003	0.0003
Al3082	308.215	{1 In2306	ppm	-0.0103	0.0022	20.97	-0.0088	-0.0119
As1890	189.042	{4 Y_2243	ppm	0.0019	0.0019	98.02	0.0006	0.0032
B_2496	249.678	{1 Y_3710	ppm	0.0082	0.0014	16.78	0.0091	0.0072
Ba4554	455.403	{ ï Y_3710	ppm	0.0021	0.0001	3.616	0.0022	0.0021
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	35.07	0.0002	0.0001
Ca3158	315.887	{1 In2306	ppm	0.1843	0.0031	1.695	0.1821	0.1865
Ca3181	318.128	{1 In2306	ppm	0.1494	0.0156	10.46	0.1604	0.1383
Cd2288	228.802	{4 Y_2243	ppm	0.0011	0.0012	115.7	0.0002	0.0019
Co2286	228.616	{4 In2306	ppm	0.0019	0.0026	132.8	0.0001	0.0037
Cr2677	267.716	{1 Y_3600	ppm	0.0005	0.0002	44.25	0.0007	0.0004
Cu3247	324.754	{1 Y_3600	ppm	0.0037	0.0002	5.984	0.0038	0.0035
Fe2404	240.488	{1 In2306	ppm	0.0642	0.0017	2.651	0.0629	0.0654
K_7664	766.490	{ ¿ Y_3710	ppm	0.0003	0.017	6185	-0.0118	0.0123
K_7698	769.896	{ ¿ Y_3710	ppm	-0.0214	0.019	88.86	-0.008	-0.0349
Li6707	670.784	{ ß Y_3710	ppm	-0.0004	0.0008	218.7	-0.0009	0.0002
Mg2790	279.079	{1 Y_3710	ppm	0.0203	0.0023	11.28	0.0187	0.0219
Mn2576	257.610	{1 Y_3600	ppm	0.0004	0	12.1	0.0003	0.0004
Mn2576-2	257.610	{1 Y_3710	ppm	0.0001	0.0009	937.6	-0.0005	0.0007
Mo2020	202.030	{4 Y_2243	ppm	0.0061	0.0042	68.55	0.0032	0.0091
Na5895	589.592	{ ß Y_3710	ppm	19.4	0.0212	0.1092	19.42	19.39
Na8183	818.326	{ ¿ Y_3710	ppm	19.34	0.0306	0.1582	19.37	19.32
Ni2316	231.604	{4 In2306	ppm	0.0021	0.0025	117	0.0004	0.0039
P_1782	178.284	{4 In2306	ppm	0.0233	0.0008	3.469	0.0228	0.0239
Pb2203	220.353	{4 In2306	ppm	0.0024	0.0023	96.19	0.0008	0.004
S_1820	182.034	{4 Y_2243	ppm	3.443	0.6061	17.6	3.015	3.872
Sb2068	206.833	{4 Y_2243	ppm	0.004	0.0041	102.4	0.0011	0.0069
Se1960	196.090	{4 Y_2243	ppm	0.0029	0.0014	48.21	0.0019	0.0039
Si2516	251.611	{1 Y_3710	ppm	0.0231	0.0151	65.52	0.0124	0.0338
Sn1899	189.989	{4 In2306	ppm	0.0033	0.004	120	0.0005	0.0062
Sr4215	421.552	{ ß Y_3710	ppm	0.0004	0	5.167	0.0003	0.0004
Ti3349	334.904	{1 Y_3600	ppm	0.0005	0.0002	36.55	0.0004	0.0006
Tl1908	190.856	{4 In2306	ppm	0.1967	0.0312	15.89	0.1746	0.2188
V_2924	292.402	{1 Y_3600	ppm	0.0003	0	0.4689	0.0003	0.0003
Zn2062	206.200	{4 In2306	ppm	0.0061	0.0025	41.78	0.0043	0.0079

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1005.3	7.4396	0.74006	1000	1010.5
In2306	230.606	{4 Cts/S	18920	27.43	0.14498	18940	18901
Y_2243	224.306	{4 Cts/S	22472	23.456	0.10438	22489	22456
Y_3600	360.073	{ ¶ Cts/S	200030	426.83	0.21338	200330	199730
Y_3710	371.030	{ ¶ Cts/S	56199	438.38	0.78006	55889	56509

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60829-a-2-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:43:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0002	70.8	-0.0005	-0.0002
Al3082	308.215	{1 In2306	ppm	0.0167	0.0004	2.554	0.017	0.0164
As1890	189.042	{4 Y_2243	ppm	0.0016	0.0011	68.62	0.0008	0.0024
B_2496	249.678	{1 Y_3710	ppm	0.0254	0.0006	2.286	0.025	0.0259
Ba4554	455.403	{ 7 Y_3710	ppm	0.0313	0.0021	6.592	0.0298	0.0327
Be3130	313.042	{1 Y_3710	ppm	-0.0001	0	32.92	-0.0001	-0.0001
Ca3158	315.887	{1 In2306	ppm	201.3	14.17	7.04	191.3	211.3
Ca3181	318.128	{1 In2306	ppm	192.1	12.43	6.47	183.3	200.9
Cd2288	228.802	{4 Y_2243	ppm	0.0003	0.0001	19.43	0.0002	0.0003
Co2286	228.616	{4 In2306	ppm	0.0001	0	11.41	0.0001	0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0014	0.0001	8.432	0.0013	0.0015
Cu3247	324.754	{1 Y_3600	ppm	0.0063	0.0004	5.899	0.006	0.0065
Fe2404	240.488	{1 In2306	ppm	0.0051	0.0006	11.93	0.0055	0.0047
K_7664	766.490	{ 4 Y_3710	ppm	0.4159	0.0081	1.936	0.4102	0.4216
K_7698	769.896	{ 4 Y_3710	ppm	0.5023	0.0352	7.014	0.4774	0.5272
Li6707	670.784	{ 8 Y_3710	ppm	0.0063	0.0001	0.8812	0.0064	0.0063
Mg2790	279.079	{1 Y_3710	ppm	2.138	0.1259	5.891	2.049	2.227
Mn2576	257.610	{1 Y_3600	ppm	0.9539	0.0017	0.1743	0.9551	0.9527
Mn2576-2	257.610	{1 Y_3710	ppm	0.988	0.0689	6.975	0.9392	1.037
Mo2020	202.030	{4 Y_2243	ppm	0.0025	0	0.4817	0.0025	0.0026
Na5895	589.592	{ 8 Y_3710	ppm	1.924	0.1192	6.198	1.839	2.008
Na8183	818.326	{ 4 Y_3710	ppm	1.791	0.0528	2.951	1.753	1.828
Ni2316	231.604	{4 In2306	ppm	0.0045	0.0003	5.758	0.0044	0.0047
P_1782	178.284	{4 In2306	ppm	0.0071	0.0011	16.19	0.0079	0.0062
Pb2203	220.353	{4 In2306	ppm	-0.0013	0.0007	50.04	-0.0018	-0.0009
S_1820	182.034	{4 Y_2243	ppm	-2661	22.68	0.8523	-2677	-2645
Sb2068	206.833	{4 Y_2243	ppm	-0.0033	0.0002	6.872	-0.0032	-0.0035
Se1960	196.090	{4 Y_2243	ppm	0.0019	0.0002	8.825	0.002	0.0018
Si2516	251.611	{1 Y_3710	ppm	0.7671	0.0551	7.179	0.7282	0.8061
Sn1899	189.989	{4 In2306	ppm	0.0006	0.0002	27.05	0.0005	0.0007
Sr4215	421.552	{ 8 Y_3710	ppm	0.2229	0.0156	7.003	0.2118	0.2339
Ti3349	334.904	{1 Y_3600	ppm	0.0011	0.0001	6.381	0.0011	0.0012
Tl1908	190.856	{4 In2306	ppm	0.0821	0.0177	21.55	0.0696	0.0946
V_2924	292.402	{1 Y_3600	ppm	0.0006	0.0003	50.34	0.0008	0.0004
Zn2062	206.200	{4 In2306	ppm	0.0099	0	0.4134	0.0099	0.0098

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	927.88	47.341	5.102	961.35	894.4
In2306	230.606	{4 Cts/S	17017	85.502	0.50244	16957	17078
Y_2243	224.306	{4 Cts/S	21398	100.63	0.47028	21327	21469
Y_3600	360.073	{ 9 Cts/S	191050	378.92	0.19834	190780	191320
Y_3710	371.030	{ 9 Cts/S	52641	2634.6	5.0049	54504	50778

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60829-a-2-d ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:46:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5424	0.0025	0.4557	0.5406	0.5441
Al3082	308.215 {1	In2306	ppm	10.52	0.0955	0.9076	10.59	10.45
As1890	189.042 {4	Y_2243	ppm	1.06	0.0034	0.3211	1.062	1.057
B_2496	249.678 {1	Y_3710	ppm	1.041	0.0007	0.0695	1.042	1.041
Ba4554	455.403 {	Y_3710	ppm	1.042	0.0009	0.0845	1.042	1.043
Be3130	313.042 {1	Y_3710	ppm	0.5172	0.0005	0.0875	0.5169	0.5175
Ca3158	315.887 {1	In2306	ppm	213.4	0.9899	0.464	214.1	212.7
Ca3181	318.128 {1	In2306	ppm	203.3	1.568	0.7714	204.4	202.2
Cd2288	228.802 {4	Y_2243	ppm	0.5189	0.0015	0.2884	0.52	0.5178
Co2286	228.616 {4	In2306	ppm	1.013	0.0025	0.2477	1.015	1.011
Cr2677	267.716 {1	Y_3600	ppm	1.003	0.0025	0.2452	1.004	1.001
Cu3247	324.754 {1	Y_3600	ppm	1.057	0.0017	0.157	1.055	1.058
Fe2404	240.488 {1	In2306	ppm	10.2	0.0642	0.6292	10.24	10.15
K_7664	766.490 {	Y_3710	ppm	10.8	0.0072	0.067	10.8	10.81
K_7698	769.896 {	Y_3710	ppm	10.87	0.0763	0.702	10.82	10.93
Li6707	670.784 {	Y_3710	ppm	0.5338	0.0026	0.4862	0.5356	0.532
Mg2790	279.079 {1	Y_3710	ppm	12.02	0.0263	0.2185	12	12.04
Mn2576	257.610 {1	Y_3600	ppm	2.049	0.003	0.1485	2.051	2.047
Mn2576-2	257.610 {1	Y_3710	ppm	2.034	0.0055	0.2697	2.03	2.038
Mo2020	202.030 {4	Y_2243	ppm	1.063	0.0045	0.4227	1.066	1.059
Na5895	589.592 {	Y_3710	ppm	12.42	0.0317	0.2552	12.44	12.4
Na8183	818.326 {	Y_3710	ppm	12.43	0.0513	0.4132	12.46	12.39
Ni2316	231.604 {4	In2306	ppm	1.03	0.0007	0.0721	1.03	1.029
P_1782	178.284 {4	In2306	ppm	0.0077	0.0002	2.593	0.0078	0.0076
Pb2203	220.353 {4	In2306	ppm	1.014	0.0025	0.2442	1.015	1.012
S_1820	182.034 {4	Y_2243	ppm	-2773	10.37	0.3738	-2781	-2766
Sb2068	206.833 {4	Y_2243	ppm	1.031	0.006	0.584	1.035	1.026
Se1960	196.090 {4	Y_2243	ppm	1.074	0.0024	0.2201	1.075	1.072
Si2516	251.611 {1	Y_3710	ppm	1.728	0.0051	0.2931	1.725	1.732
Sn1899	189.989 {4	In2306	ppm	1.038	0.0027	0.2557	1.04	1.036
Sr4215	421.552 {	Y_3710	ppm	0.747	0.0003	0.0419	0.7472	0.7467
Ti3349	334.904 {1	Y_3600	ppm	1.018	0.0053	0.5174	1.022	1.015
Tl1908	190.856 {4	In2306	ppm	0.8374	0.084	10.04	0.8968	0.778
V_2924	292.402 {1	Y_3600	ppm	1.011	0.0036	0.3546	1.014	1.009
Zn2062	206.200 {4	In2306	ppm	1.004	0.0001	0.0078	1.004	1.004

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	955.89	10.4	1.088	948.54	963.25
In2306	230.606 {4	Cts/S	16535	11.036	0.06675	16527	16542
Y_2243	224.306 {4	Cts/S	21512	19.129	0.08892	21498	21525
Y_3600	360.073 {	Cts/S	191450	746.21	0.38978	190920	191970
Y_3710	371.030 {	Cts/S	55010	52.795	0.09597	54973	55047

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:48:27
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2569	0.0009	0.3383	0.2576	0.2563
Al3082	308.215 {1	In2306	ppm	2.42	0.014	0.5796	2.411	2.43
As1890	189.042 {4	Y_2243	ppm	0.5155	0.015	2.908	0.5261	0.5049
B_2496	249.678 {1	Y_3710	ppm	0.488	0.0014	0.2849	0.489	0.487
Ba4554	455.403 {	Y_3710	ppm	0.4836	0.0014	0.2963	0.4826	0.4847
Be3130	313.042 {1	Y_3710	ppm	0.4914	0.0005	0.0985	0.4911	0.4917
Ca3158	315.887 {1	In2306	ppm	12.72	0.0039	0.031	12.72	12.72
Ca3181	318.128 {1	In2306	ppm	12.05	0.0226	0.1878	12.07	12.04
Cd2288	228.802 {4	Y_2243	ppm	0.5103	0.0121	2.37	0.5189	0.5018
Co2286	228.616 {4	In2306	ppm	0.4825	0.0129	2.675	0.4916	0.4734
Cr2677	267.716 {1	Y_3600	ppm	0.4962	0.0026	0.5176	0.4981	0.4944
Cu3247	324.754 {1	Y_3600	ppm	0.5101	0.0001	0.0142	0.51	0.5101
Fe2404	240.488 {1	In2306	ppm	2.449	0.0053	0.2183	2.445	2.453
K_7664	766.490 {	Y_3710	ppm	12.23	0.1008	0.8242	12.16	12.3
K_7698	769.896 {	Y_3710	ppm	12.4	0.0177	0.143	12.39	12.41
Li6707	670.784 {	Y_3710	ppm	0.4984	0.0035	0.6953	0.496	0.5009
Mg2790	279.079 {1	Y_3710	ppm	4.804	0.0183	0.3811	4.817	4.791
Mn2576	257.610 {1	Y_3600	ppm	0.5212	0.0032	0.6119	0.5235	0.519
Mn2576-2	257.610 {1	Y_3710	ppm	0.5124	0.0016	0.3164	0.5136	0.5113
Mo2020	202.030 {4	Y_2243	ppm	0.5314	0.0124	2.338	0.5402	0.5226
Na5895	589.592 {	Y_3710	ppm	12.38	0.0683	0.5513	12.34	12.43
Na8183	818.326 {	Y_3710	ppm	12.51	0.1565	1.251	12.4	12.62
Ni2316	231.604 {4	In2306	ppm	0.4922	0.014	2.838	0.5021	0.4823
P_1782	178.284 {4	In2306	ppm	0.4895	0.0101	2.062	0.4967	0.4824
Pb2203	220.353 {4	In2306	ppm	0.4907	0.0133	2.72	0.5001	0.4812
S_1820	182.034 {4	Y_2243	ppm	-853.7	21.08	2.47	-868.6	-838.8
Sb2068	206.833 {4	Y_2243	ppm	0.5157	0.0123	2.384	0.5244	0.507
Se1960	196.090 {4	Y_2243	ppm	0.5216	0.0136	2.613	0.5312	0.512
Si2516	251.611 {1	Y_3710	ppm	0.8963	0.001	0.1157	0.8955	0.897
Sn1899	189.989 {4	In2306	ppm	0.4965	0.0126	2.541	0.5054	0.4876
Sr4215	421.552 {	Y_3710	ppm	0.2519	0.001	0.4092	0.2512	0.2526
Ti3349	334.904 {1	Y_3600	ppm	0.4916	0.0028	0.5637	0.4935	0.4896
Tl1908	190.856 {4	In2306	ppm	0.5588	0.0245	4.383	0.5761	0.5415
V_2924	292.402 {1	Y_3600	ppm	0.492	0.0032	0.6585	0.4943	0.4897
Zn2062	206.200 {4	In2306	ppm	0.469	0.0124	2.64	0.4777	0.4602

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1004.8	1.7892	0.17807	1006.1	1003.5
In2306	230.606 {4	Cts/S	18199	350.41	1.9255	17951	18446
Y_2243	224.306 {4	Cts/S	22016	421.45	1.9143	21718	22314
Y_3600	360.073 {	Cts/S	200300	152.76	0.07627	200190	200410
Y_3710	371.030 {	Cts/S	56460	232.64	0.41204	56295	56624

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:50:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0049	0.0001	2.829	0.0048	0.005
Al3082	308.215 {1	In2306	ppm	0.0851	0.0116	13.64	0.0769	0.0933
As1890	189.042 {4	Y_2243	ppm	0.0092	0.0014	15.65	0.0082	0.0103
B_2496	249.678 {1	Y_3710	ppm	0.0102	0.0022	21.27	0.0118	0.0087
Ba4554	455.403 {	Y_3710	ppm	0.0101	0.0001	0.4967	0.0101	0.0102
Be3130	313.042 {1	Y_3710	ppm	0.0051	0.0001	1.763	0.0051	0.005
Ca3158	315.887 {1	In2306	ppm	0.128	0.0048	3.741	0.1314	0.1246
Ca3181	318.128 {1	In2306	ppm	0.0765	0.0207	27.07	0.0618	0.0911
Cd2288	228.802 {4	Y_2243	ppm	0.0057	0.0003	5.621	0.0054	0.0059
Co2286	228.616 {4	In2306	ppm	0.0097	0.0005	5.016	0.0093	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0102	0.0001	0.4969	0.0101	0.0102
Cu3247	324.754 {1	Y_3600	ppm	0.014	0.0002	1.494	0.0138	0.0141
Fe2404	240.488 {1	In2306	ppm	0.1013	0.0014	1.388	0.1023	0.1003
K_7664	766.490 {	Y_3710	ppm	0.5912	0.0222	3.759	0.5755	0.6069
K_7698	769.896 {	Y_3710	ppm	0.5904	0.0314	5.315	0.5683	0.6126
Li6707	670.784 {	Y_3710	ppm	0.0093	0.0009	9.381	0.01	0.0087
Mg2790	279.079 {1	Y_3710	ppm	0.0969	0.0019	1.995	0.0956	0.0983
Mn2576	257.610 {1	Y_3600	ppm	0.0108	0	0.2918	0.0107	0.0108
Mn2576-2	257.610 {1	Y_3710	ppm	0.0102	0.0002	2.281	0.0101	0.0104
Mo2020	202.030 {4	Y_2243	ppm	0.013	0.0008	6.022	0.0124	0.0135
Na5895	589.592 {	Y_3710	ppm	0.6101	0.0009	0.1407	0.6107	0.6095
Na8183	818.326 {	Y_3710	ppm	0.6371	0.0651	10.22	0.6831	0.591
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0002	2.167	0.01	0.0103
P_1782	178.284 {4	In2306	ppm	0.0092	0.0007	7.73	0.0098	0.0087
Pb2203	220.353 {4	In2306	ppm	0.0102	0.0009	8.513	0.0095	0.0108
S_1820	182.034 {4	Y_2243	ppm	9.082	0.0774	0.8527	9.137	9.027
Sb2068	206.833 {4	Y_2243	ppm	0.0117	0.0031	26.29	0.0095	0.0139
Se1960	196.090 {4	Y_2243	ppm	0.011	0.0001	0.8685	0.0109	0.0111
Si2516	251.611 {1	Y_3710	ppm	0.0094	0.0041	43.79	0.0123	0.0065
Sn1899	189.989 {4	In2306	ppm	0.0108	0.0005	4.672	0.0104	0.0111
Sr4215	421.552 {	Y_3710	ppm	0.0052	0	0.3941	0.0052	0.0052
Ti3349	334.904 {1	Y_3600	ppm	0.0098	0.0002	1.611	0.0099	0.0097
Tl1908	190.856 {4	In2306	ppm	0.143	0.0327	22.89	0.1199	0.1662
V_2924	292.402 {1	Y_3600	ppm	0.01	0.0003	2.823	0.0102	0.0098
Zn2062	206.200 {4	In2306	ppm	0.0096	0.0005	5.294	0.0092	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1028.1	1.0789	0.10494	1028.9	1027.4
In2306	230.606 {4	Cts/S	19567	35.854	0.18324	19541	19592
Y_2243	224.306 {4	Cts/S	22664	65.724	0.29	22617	22710
Y_3600	360.073 {	Cts/S	205430	244.01	0.11878	205600	205260
Y_3710	371.030 {	Cts/S	57390	327.81	0.5712	57158	57622

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:53:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0	16.85	-0.0002	-0.0003
Al3082	308.215 {1	In2306	ppm	-0.0158	0.0018	11.09	-0.0145	-0.017
As1890	189.042 {4	Y_2243	ppm	0.0002	0.0001	33.94	0.0002	0.0003
B_2496	249.678 {1	Y_3710	ppm	-0.0039	0.0014	36.24	-0.0049	-0.0029
Ba4554	455.403 {	Y_3710	ppm	0.0001	0.0004	308.5	0.0004	-0.0001
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	16.4	-0.0001	-0.0002
Ca3158	315.887 {1	In2306	ppm	0.0038	0.0059	153.2	-0.0003	0.008
Ca3181	318.128 {1	In2306	ppm	-0.0248	0.0059	23.95	-0.029	-0.0206
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	18.75	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	-0.0001	0.0001	174.5	0	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0	18.77	0.0002	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0033	0	0.1815	0.0034	0.0033
Fe2404	240.488 {1	In2306	ppm	0.0024	0.0038	162.6	0.0051	-0.0004
K_7664	766.490 {	Y_3710	ppm	-0.0086	0.0029	33.95	-0.0107	-0.0065
K_7698	769.896 {	Y_3710	ppm	0.0212	0.0068	31.82	0.026	0.0165
Li6707	670.784 {	Y_3710	ppm	-0.0011	0.0001	7.216	-0.0011	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	0.0019	0.0033	173.3	-0.0004	0.0043
Mn2576	257.610 {1	Y_3600	ppm	0	0	193.3	-0.0001	0
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.001	415.2	0.0009	-0.0004
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0.0002	38.85	0.0003	0.0006
Na5895	589.592 {	Y_3710	ppm	-0.0028	0.0037	130.1	-0.0002	-0.0054
Na8183	818.326 {	Y_3710	ppm	0.1872	0.0807	43.13	0.1301	0.2442
Ni2316	231.604 {4	In2306	ppm	0.0001	0	60.76	0	0.0001
P_1782	178.284 {4	In2306	ppm	0.0001	0.0002	179.2	0.0002	0
Pb2203	220.353 {4	In2306	ppm	0	0.0004	1911	0.0003	-0.0003
S_1820	182.034 {4	Y_2243	ppm	8.792	0.1728	1.966	8.914	8.669
Sb2068	206.833 {4	Y_2243	ppm	-0.0001	0.0019	1683	0.0012	-0.0015
Se1960	196.090 {4	Y_2243	ppm	0	0.0014	7604	0.001	-0.001
Si2516	251.611 {1	Y_3710	ppm	-0.0007	0.0004	50.23	-0.0004	-0.0009
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0002	178.6	0	0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	17.9	0	0
Ti3349	334.904 {1	Y_3600	ppm	0.0001	0.0001	175.7	0.0002	0
Tl1908	190.856 {4	In2306	ppm	0.0584	0.0176	30.1	0.046	0.0708
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	216.2	0.0001	0
Zn2062	206.200 {4	In2306	ppm	0.0001	0	3.7	0.0001	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1037.2	21.914	2.1128	1021.7	1052.7
In2306	230.606 {4	Cts/S	19537	38.117	0.1951	19510	19564
Y_2243	224.306 {4	Cts/S	22575	43.011	0.19053	22545	22606
Y_3600	360.073 {	Cts/S	205650	1430.6	0.69563	204640	206670
Y_3710	371.030 {	Cts/S	57621	1189.4	2.0642	56780	58462

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60829-a-2-e msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:55:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5459	0.0001	0.0266	0.5461	0.5458
Al3082	308.215 {1	In2306	ppm	10.82	0.221	2.042	10.67	10.98
As1890	189.042 {4	Y_2243	ppm	1.07	0.0005	0.0459	1.07	1.07
B_2496	249.678 {1	Y_3710	ppm	1.062	0.0283	2.665	1.042	1.082
Ba4554	455.403 {	Y_3710	ppm	1.068	0.0294	2.753	1.047	1.089
Be3130	313.042 {1	Y_3710	ppm	0.526	0.0157	2.986	0.5149	0.5371
Ca3158	315.887 {1	In2306	ppm	213.9	4.924	2.302	210.4	217.4
Ca3181	318.128 {1	In2306	ppm	200.8	5.221	2.6	197.1	204.5
Cd2288	228.802 {4	Y_2243	ppm	0.5232	0	0.0014	0.5232	0.5232
Co2286	228.616 {4	In2306	ppm	1.015	0.0021	0.2044	1.016	1.013
Cr2677	267.716 {1	Y_3600	ppm	1.002	0.001	0.0987	1.003	1.001
Cu3247	324.754 {1	Y_3600	ppm	1.07	0.0031	0.2919	1.073	1.068
Fe2404	240.488 {1	In2306	ppm	10.42	0.2647	2.539	10.24	10.61
K_7664	766.490 {	Y_3710	ppm	11.01	0.2925	2.657	10.8	11.21
K_7698	769.896 {	Y_3710	ppm	11.15	0.2954	2.65	10.94	11.35
Li6707	670.784 {	Y_3710	ppm	0.5506	0.014	2.536	0.5408	0.5605
Mg2790	279.079 {1	Y_3710	ppm	12.05	0.3084	2.56	11.83	12.27
Mn2576	257.610 {1	Y_3600	ppm	2.041	0.0004	0.0214	2.04	2.041
Mn2576-2	257.610 {1	Y_3710	ppm	2.07	0.054	2.607	2.031	2.108
Mo2020	202.030 {4	Y_2243	ppm	1.077	0.0021	0.1928	1.079	1.076
Na5895	589.592 {	Y_3710	ppm	12.65	0.3202	2.531	12.43	12.88
Na8183	818.326 {	Y_3710	ppm	12.51	0.2828	2.26	12.31	12.71
Ni2316	231.604 {4	In2306	ppm	1.035	0.0051	0.4955	1.039	1.032
P_1782	178.284 {4	In2306	ppm	0.0052	0.0019	36.07	0.0065	0.0039
Pb2203	220.353 {4	In2306	ppm	1.02	0.0056	0.547	1.024	1.016
S_1820	182.034 {4	Y_2243	ppm	-2719	1.082	0.0398	-2720	-2718
Sb2068	206.833 {4	Y_2243	ppm	1.045	0.0014	0.1362	1.044	1.046
Se1960	196.090 {4	Y_2243	ppm	1.087	0.0056	0.5156	1.083	1.091
Si2516	251.611 {1	Y_3710	ppm	1.711	0.052	3.039	1.674	1.748
Sn1899	189.989 {4	In2306	ppm	1.04	0.0024	0.2328	1.042	1.039
Sr4215	421.552 {	Y_3710	ppm	0.7629	0.0189	2.481	0.7496	0.7763
Ti3349	334.904 {1	Y_3600	ppm	1.024	0.0013	0.1294	1.025	1.023
Tl1908	190.856 {4	In2306	ppm	0.9046	0.0898	9.922	0.9681	0.8412
V_2924	292.402 {1	Y_3600	ppm	1.015	0.0007	0.0705	1.016	1.015
Zn2062	206.200 {4	In2306	ppm	0.9984	0.0061	0.6065	1.003	0.9941

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	952.25	17.66	1.8545	964.73	939.76
In2306	230.606 {4	Cts/S	16575	7.8863	0.04758	16570	16581
Y_2243	224.306 {4	Cts/S	21425	23.092	0.10778	21442	21409
Y_3600	360.073 {	Cts/S	191750	150.19	0.07832	191650	191860
Y_3710	371.030 {	Cts/S	55258	1450.1	2.6241	56284	54233

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60829-a-6-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:57:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0003	156.5	0	-0.0005
Al3082	308.215 {1	In2306	ppm	0.0097	0.017	175.3	0.0217	-0.0023
As1890	189.042 {4	Y_2243	ppm	0.0009	0.0017	178.5	-0.0002	0.0021
B_2496	249.678 {1	Y_3710	ppm	0.0539	0.0009	1.747	0.0532	0.0545
Ba4554	455.403 {	Y_3710	ppm	0.0396	0.0001	0.3557	0.0395	0.0397
Be3130	313.042 {1	Y_3710	ppm	0	0.0001	796.3	0.0001	0
Ca3158	315.887 {1	In2306	ppm	212.3	0.5873	0.2766	211.9	212.7
Ca3181	318.128 {1	In2306	ppm	199.9	0.2666	0.1334	199.7	200.1
Cd2288	228.802 {4	Y_2243	ppm	0.0007	0.0006	87.91	0.0003	0.0012
Co2286	228.616 {4	In2306	ppm	0.0013	0.0014	108.9	0.0003	0.0023
Cr2677	267.716 {1	Y_3600	ppm	0.0016	0.0005	31.14	0.0019	0.0012
Cu3247	324.754 {1	Y_3600	ppm	0.0047	0.0001	2.108	0.0046	0.0047
Fe2404	240.488 {1	In2306	ppm	0.3209	0.0001	0.0264	0.321	0.3209
K_7664	766.490 {	Y_3710	ppm	0.1599	0.0019	1.186	0.1612	0.1586
K_7698	769.896 {	Y_3710	ppm	0.1674	0.0307	18.33	0.1891	0.1457
Li6707	670.784 {	Y_3710	ppm	0.0064	0.0007	10.95	0.0069	0.0059
Mg2790	279.079 {1	Y_3710	ppm	1.999	0.0364	1.822	1.973	2.025
Mn2576	257.610 {1	Y_3600	ppm	0.4319	0.0007	0.1539	0.4324	0.4314
Mn2576-2	257.610 {1	Y_3710	ppm	0.4278	0.0027	0.6421	0.4259	0.4298
Mo2020	202.030 {4	Y_2243	ppm	0.0058	0.003	50.79	0.0037	0.0079
Na5895	589.592 {	Y_3710	ppm	5.45	0.0353	0.6481	5.425	5.475
Na8183	818.326 {	Y_3710	ppm	5.539	0.0516	0.9313	5.503	5.576
Ni2316	231.604 {4	In2306	ppm	0.0026	0.0016	60.28	0.0015	0.0038
P_1782	178.284 {4	In2306	ppm	0.0055	0.0006	10.79	0.005	0.0059
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0017	441.5	-0.0008	0.0016
S_1820	182.034 {4	Y_2243	ppm	-3543	19.55	0.5519	-3557	-3529
Sb2068	206.833 {4	Y_2243	ppm	0.002	0.0015	72.12	0.001	0.0031
Se1960	196.090 {4	Y_2243	ppm	0.0028	0.0028	100.2	0.0008	0.0047
Si2516	251.611 {1	Y_3710	ppm	0.9077	0.0079	0.8699	0.9021	0.9132
Sn1899	189.989 {4	In2306	ppm	0.0025	0.0019	74.34	0.0012	0.0039
Sr4215	421.552 {	Y_3710	ppm	0.2529	0.0004	0.1701	0.2526	0.2532
Ti3349	334.904 {1	Y_3600	ppm	0.0016	0.0004	24.27	0.0018	0.0013
Tl1908	190.856 {4	In2306	ppm	0.1302	0.0383	29.43	0.1031	0.1573
V_2924	292.402 {1	Y_3600	ppm	0.0024	0.0004	15.56	0.0027	0.0021
Zn2062	206.200 {4	In2306	ppm	0.0106	0.0013	12.67	0.0096	0.0115

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	984.06	0.14858	0.0151	984.17	983.96
In2306	230.606 {4	Cts/S	17055	41.697	0.24448	17026	17085
Y_2243	224.306 {4	Cts/S	21337	27.366	0.12826	21318	21356
Y_3600	360.073 {	Cts/S	192270	10.956	0.0057	192280	192270
Y_3710	371.030 {	Cts/S	56321	167.4	0.29723	56439	56203

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=PDS 600-60829-a-2-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 8:59:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5134	0.002	0.3849	0.5148	0.512
Al3082	308.215	{1 In2306	ppm	10.03	0.1065	1.061	10.11	9.959
As1890	189.042	{4 Y_2243	ppm	1.027	0.0088	0.8548	1.033	1.02
B_2496	249.678	{1 Y_3710	ppm	0.9875	0.0015	0.1519	0.9885	0.9864
Ba4554	455.403	{ 7 Y_3710	ppm	1.005	0.008	0.7939	1.011	0.9994
Be3130	313.042	{1 Y_3710	ppm	0.4862	0.0012	0.2511	0.4871	0.4853
Ca3158	315.887	{1 In2306	ppm	201.2	2.015	1.002	202.6	199.8
Ca3181	318.128	{1 In2306	ppm	189.2	1.334	0.705	190.2	188.3
Cd2288	228.802	{4 Y_2243	ppm	0.5018	0.003	0.6028	0.504	0.4997
Co2286	228.616	{4 In2306	ppm	0.9624	0.0064	0.6699	0.967	0.9579
Cr2677	267.716	{1 Y_3600	ppm	0.9583	0.0015	0.1614	0.9594	0.9572
Cu3247	324.754	{1 Y_3600	ppm	1.018	0.0021	0.2034	1.017	1.02
Fe2404	240.488	{1 In2306	ppm	9.644	0.0946	0.9807	9.711	9.577
K_7664	766.490	{ 4 Y_3710	ppm	10.27	0.0708	0.6896	10.32	10.22
K_7698	769.896	{ 4 Y_3710	ppm	10.41	0.1038	0.9968	10.48	10.34
Li6707	670.784	{ 8 Y_3710	ppm	1.028	0.0083	0.8106	1.034	1.022
Mg2790	279.079	{1 Y_3710	ppm	11.27	0.0059	0.0521	11.26	11.27
Mn2576	257.610	{1 Y_3600	ppm	1.956	0.0028	0.1418	1.958	1.954
Mn2576-2	257.610	{1 Y_3710	ppm	1.944	0.0126	0.6497	1.953	1.935
Mo2020	202.030	{4 Y_2243	ppm	1.003	0.0086	0.8624	1.009	0.9969
Na5895	589.592	{ 8 Y_3710	ppm	11.82	0.0881	0.7453	11.88	11.76
Na8183	818.326	{ 4 Y_3710	ppm	11.93	0.1848	1.549	12.06	11.8
Ni2316	231.604	{4 In2306	ppm	0.9938	0.0092	0.9297	1	0.9873
P_1782	178.284	{4 In2306	ppm	1.071	0.0039	0.3663	1.074	1.068
Pb2203	220.353	{4 In2306	ppm	0.9831	0.006	0.6138	0.9874	0.9789
S_1820	182.034	{4 Y_2243	ppm	-2641	11.3	0.4278	-2649	-2633
Sb2068	206.833	{4 Y_2243	ppm	0.9827	0.0098	0.9938	0.9896	0.9757
Se1960	196.090	{4 Y_2243	ppm	1.043	0.0038	0.3675	1.045	1.04
Si2516	251.611	{1 Y_3710	ppm	1.641	0.0112	0.6805	1.633	1.648
Sn1899	189.989	{4 In2306	ppm	0.9859	0.0092	0.9288	0.9924	0.9794
Sr4215	421.552	{ 8 Y_3710	ppm	0.7132	0.0047	0.6626	0.7165	0.7098
Ti3349	334.904	{1 Y_3600	ppm	0.9623	0.0008	0.0851	0.9617	0.9628
Tl1908	190.856	{4 In2306	ppm	1.086	0.0064	0.5853	1.082	1.091
V_2924	292.402	{1 Y_3600	ppm	0.9559	0.0047	0.4904	0.9593	0.9526
Zn2062	206.200	{4 In2306	ppm	0.9614	0.0078	0.8072	0.9669	0.9559

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	973.04	8.6129	0.88515	966.95	979.13
In2306	230.606	{4 Cts/S	16567	88.154	0.53212	16504	16629
Y_2243	224.306	{4 Cts/S	21391	97.35	0.4551	21322	21460
Y_3600	360.073	{ 9 Cts/S	193320	47.964	0.02481	193290	193360
Y_3710	371.030	{ 9 Cts/S	56085	222.21	0.3962	55928	56243

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=SD 600-60829-a-2-c@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:02:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0.0007	295.8	0.0003	-0.0007
Al3082	308.215	{1 In2306	ppm	0.0005	0.0129	2770	-0.0086	0.0096
As1890	189.042	{4 Y_2243	ppm	0.0006	0.0011	185.6	-0.0002	0.0014
B_2496	249.678	{1 Y_3710	ppm	0.0058	0.0019	32.4	0.0045	0.0071
Ba4554	455.403	{ 7 Y_3710	ppm	0.0061	0	0.5474	0.006	0.0061
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	45.42	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	37.83	0.3264	0.8627	38.06	37.6
Ca3181	318.128	{1 In2306	ppm	35.8	0.2761	0.7712	36	35.61
Cd2288	228.802	{4 Y_2243	ppm	0.0005	0.0005	97.41	0.0002	0.0008
Co2286	228.616	{4 In2306	ppm	0.0007	0.001	149.6	0	0.0014
Cr2677	267.716	{1 Y_3600	ppm	0.0009	0.0002	22.46	0.0007	0.001
Cu3247	324.754	{1 Y_3600	ppm	0.0047	0.0001	1.736	0.0046	0.0047
Fe2404	240.488	{1 In2306	ppm	-0.0004	0.002	557.8	-0.0018	0.0011
K_7664	766.490	{ 4 Y_3710	ppm	0.092	0.0168	18.27	0.1038	0.0801
K_7698	769.896	{ 4 Y_3710	ppm	0.0812	0.0068	8.335	0.0764	0.086
Li6707	670.784	{ 8 Y_3710	ppm	0.0007	0.0004	51.97	0.001	0.0005
Mg2790	279.079	{1 Y_3710	ppm	0.4001	0.0182	4.558	0.413	0.3872
Mn2576	257.610	{1 Y_3600	ppm	0.1963	0.0005	0.232	0.1966	0.1959
Mn2576-2	257.610	{1 Y_3710	ppm	0.1909	0.002	1.066	0.1923	0.1894
Mo2020	202.030	{4 Y_2243	ppm	0.0047	0.002	42.33	0.0033	0.0061
Na5895	589.592	{ 8 Y_3710	ppm	0.3543	0.0059	1.661	0.3584	0.3501
Na8183	818.326	{ 4 Y_3710	ppm	0.3547	0.073	20.59	0.4063	0.303
Ni2316	231.604	{4 In2306	ppm	0.0016	0.0009	57.35	0.001	0.0023
P_1782	178.284	{4 In2306	ppm	0.0016	0.0018	110.6	0.0004	0.0029
Pb2203	220.353	{4 In2306	ppm	0.0005	0.0002	37.74	0.0004	0.0006
S_1820	182.034	{4 Y_2243	ppm	-507.4	0.2116	0.0417	-507.6	-507.3
Sb2068	206.833	{4 Y_2243	ppm	0.0018	0.0031	178.8	-0.0005	0.004
Se1960	196.090	{4 Y_2243	ppm	0.0018	0.0003	14.03	0.002	0.0016
Si2516	251.611	{1 Y_3710	ppm	0.1436	0.0016	1.09	0.1425	0.1447
Sn1899	189.989	{4 In2306	ppm	0.0019	0.0013	70.2	0.001	0.0028
Sr4215	421.552	{ 8 Y_3710	ppm	0.0429	0.0001	0.2573	0.043	0.0429
Ti3349	334.904	{1 Y_3600	ppm	0.0005	0.0001	20.51	0.0005	0.0004
Tl1908	190.856	{4 In2306	ppm	0.0195	0.0095	48.59	0.0128	0.0261
V_2924	292.402	{1 Y_3600	ppm	0.0003	0.0002	58.35	0.0004	0.0002
Zn2062	206.200	{4 In2306	ppm	0.0047	0.0008	15.92	0.0042	0.0053

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1011.7	6.268	0.61958	1007.2	1016.1
In2306	230.606	{4 Cts/S	18678	8.761	0.0469	18672	18685
Y_2243	224.306	{4 Cts/S	22326	37.325	0.16718	22300	22353
Y_3600	360.073	{ 9 Cts/S	200940	1061.9	0.52847	201690	200190
Y_3710	371.030	{ 9 Cts/S	56783	47.797	0.08418	56749	56816

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=mb 600-88007/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:04:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.0001	73.28	-0.0002	-0.0001
Al3082	308.215	{1 In2306	ppm	-0.0001	0.0068	7792	0.0047	-0.0049
As1890	189.042	{4 Y_2243	ppm	-0.0007	0.001	146.8	-0.0013	0
B_2496	249.678	{1 Y_3710	ppm	-0.0052	0.0006	11.15	-0.0056	-0.0048
Ba4554	455.403	{ 7 Y_3710	ppm	0.0006	0	2.465	0.0006	0.0006
Be3130	313.042	{1 Y_3710	ppm	0	0.0001	6152	0	0
Ca3158	315.887	{1 In2306	ppm	0.0208	0.005	23.88	0.0243	0.0173
Ca3181	318.128	{1 In2306	ppm	0.017	0.0006	3.325	0.0174	0.0166
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	10.31	0.0002	0.0002
Co2286	228.616	{4 In2306	ppm	0	0	385.7	0	0
Cr2677	267.716	{1 Y_3600	ppm	0.0001	0.0002	181.7	0.0002	0
Cu3247	324.754	{1 Y_3600	ppm	0.0041	0.0002	3.884	0.004	0.0042
Fe2404	240.488	{1 In2306	ppm	0.001	0.0004	34.29	0.0008	0.0013
K_7664	766.490	{ 4 Y_3710	ppm	0.0102	0.015	147.1	0.0207	-0.0004
K_7698	769.896	{ 4 Y_3710	ppm	-0.0418	0.0022	5.27	-0.0402	-0.0433
Li6707	670.784	{ 8 Y_3710	ppm	0	0.0003	3386	0.0002	-0.0002
Mg2790	279.079	{1 Y_3710	ppm	0	0.0148	32010	-0.0105	0.0104
Mn2576	257.610	{1 Y_3600	ppm	0	0.0002	1661	-0.0002	0.0001
Mn2576-2	257.610	{1 Y_3710	ppm	0.0002	0.0005	252.1	0.0006	-0.0002
Mo2020	202.030	{4 Y_2243	ppm	0.0005	0.0002	41.85	0.0004	0.0007
Na5895	589.592	{ 8 Y_3710	ppm	0.0012	0.0007	56.56	0.0007	0.0017
Na8183	818.326	{ 4 Y_3710	ppm	0.0835	0.1661	198.8	-0.0339	0.2009
Ni2316	231.604	{4 In2306	ppm	0.0002	0	18.24	0.0001	0.0002
P_1782	178.284	{4 In2306	ppm	-0.0001	0.001	1202	-0.0008	0.0006
Pb2203	220.353	{4 In2306	ppm	0.0015	0.0002	11.7	0.0014	0.0017
S_1820	182.034	{4 Y_2243	ppm	9.362	0.3966	4.236	9.642	9.081
Sb2068	206.833	{4 Y_2243	ppm	-0.0017	0.0002	9.415	-0.0018	-0.0016
Se1960	196.090	{4 Y_2243	ppm	0.0005	0.0004	77.02	0.0002	0.0008
Si2516	251.611	{1 Y_3710	ppm	0.0026	0.0002	7.117	0.0028	0.0025
Sn1899	189.989	{4 In2306	ppm	0	0.0001	418.1	0.0001	-0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0.0001	0	41.09	0.0001	0.0001
Ti3349	334.904	{1 Y_3600	ppm	0	0	65.15	0	0.0001
Tl1908	190.856	{4 In2306	ppm	0.0076	0.0044	58.05	0.0045	0.0107
V_2924	292.402	{1 Y_3600	ppm	-0.0005	0.0001	11.9	-0.0004	-0.0005
Zn2062	206.200	{4 In2306	ppm	0.003	0	1.269	0.003	0.0029

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1024	4.1651	0.40676	1021	1026.9
In2306	230.606	{4 Cts/S	19626	9.5789	0.04881	19633	19619
Y_2243	224.306	{4 Cts/S	22785	21.599	0.09479	22800	22770
Y_3600	360.073	{ 9 Cts/S	206960	1172.2	0.56638	206140	207790
Y_3710	371.030	{ 9 Cts/S	57653	654.05	1.1345	57191	58116

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=lcs 600-88007/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:06:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5286	0.0018	0.3351	0.5273	0.5298
Al3082	308.215 {1	In2306	ppm	10.13	0.0408	0.4026	10.11	10.16
As1890	189.042 {4	Y_2243	ppm	1.034	0.0007	0.0712	1.035	1.034
B_2496	249.678 {1	Y_3710	ppm	1.006	0.0019	0.1855	1.007	1.005
Ba4554	455.403 {	Y_3710	ppm	1.022	0.0024	0.2308	1.023	1.02
Be3130	313.042 {1	Y_3710	ppm	0.5139	0.0012	0.2288	0.5147	0.513
Ca3158	315.887 {1	In2306	ppm	10.68	0.0444	0.4155	10.65	10.71
Ca3181	318.128 {1	In2306	ppm	9.999	0.017	0.1704	9.987	10.01
Cd2288	228.802 {4	Y_2243	ppm	0.5101	0.0008	0.1522	0.5106	0.5095
Co2286	228.616 {4	In2306	ppm	0.9946	0.0019	0.1927	0.9959	0.9932
Cr2677	267.716 {1	Y_3600	ppm	1.013	0.0064	0.6301	1.009	1.018
Cu3247	324.754 {1	Y_3600	ppm	1.039	0.0063	0.6095	1.034	1.043
Fe2404	240.488 {1	In2306	ppm	10.18	0.053	0.5208	10.15	10.22
K_7664	766.490 {	Y_3710	ppm	10.16	0.0165	0.1623	10.17	10.15
K_7698	769.896 {	Y_3710	ppm	10.35	0.0524	0.5064	10.39	10.31
Li6707	670.784 {	Y_3710	ppm	0.5231	0.0007	0.1285	0.5236	0.5226
Mg2790	279.079 {1	Y_3710	ppm	10.01	0.0054	0.0539	10.01	10.02
Mn2576	257.610 {1	Y_3600	ppm	1.082	0.0068	0.626	1.078	1.087
Mn2576-2	257.610 {1	Y_3710	ppm	1.078	0.0007	0.0656	1.078	1.079
Mo2020	202.030 {4	Y_2243	ppm	1.08	0.0039	0.3626	1.083	1.077
Na5895	589.592 {	Y_3710	ppm	10.37	0.0281	0.2713	10.39	10.35
Na8183	818.326 {	Y_3710	ppm	10.37	0.1548	1.493	10.48	10.26
Ni2316	231.604 {4	In2306	ppm	1.009	0.0037	0.3632	1.012	1.007
P_1782	178.284 {4	In2306	ppm	0	0.0004	1899	-0.0003	0.0003
Pb2203	220.353 {4	In2306	ppm	1.007	0.0008	0.0785	1.008	1.006
S_1820	182.034 {4	Y_2243	ppm	10.38	1.002	9.65	9.673	11.09
Sb2068	206.833 {4	Y_2243	ppm	1.026	0.0039	0.3785	1.029	1.023
Se1960	196.090 {4	Y_2243	ppm	1.048	0.0027	0.2621	1.05	1.046
Si2516	251.611 {1	Y_3710	ppm	0.9316	0.0037	0.3957	0.9343	0.929
Sn1899	189.989 {4	In2306	ppm	1.015	0.0056	0.5531	1.019	1.011
Sr4215	421.552 {	Y_3710	ppm	0.5286	0.0015	0.278	0.5297	0.5276
Ti3349	334.904 {1	Y_3600	ppm	1.008	0.0051	0.5021	1.005	1.012
Tl1908	190.856 {4	In2306	ppm	0.9314	0.0874	9.387	0.9933	0.8696
V_2924	292.402 {1	Y_3600	ppm	1.003	0.0059	0.5926	0.9986	1.007
Zn2062	206.200 {4	In2306	ppm	0.9694	0.0009	0.0917	0.97	0.9688

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1005.1	1.3694	0.13625	1006.1	1004.1
In2306	230.606 {4	Cts/S	18156	18.866	0.10391	18143	18170
Y_2243	224.306 {4	Cts/S	22392	30.226	0.13499	22370	22413
Y_3600	360.073 {	Cts/S	201380	662.08	0.32877	201850	200910
Y_3710	371.030 {	Cts/S	56672	102.55	0.18095	56599	56744

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60275-b-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:09:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0004	0.0002	54.48	-0.0006	-0.0003
Al3082	308.215	{1 In2306	ppm	0.2045	0.004	1.978	0.2017	0.2074
As1890	189.042	{4 Y_2243	ppm	0.0054	0.0031	58.17	0.0032	0.0076
B_2496	249.678	{1 Y_3710	ppm	0.1543	0.0014	0.9238	0.1553	0.1533
Ba4554	455.403	{ 7 Y_3710	ppm	0.126	0.0003	0.213	0.1258	0.1262
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	16.76	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	347.3	1.602	0.4612	346.2	348.5
Ca3181	318.128	{1 In2306	ppm	326.6	1.356	0.4151	325.7	327.6
Cd2288	228.802	{4 Y_2243	ppm	0.0011	0.0012	109.1	0.0002	0.0019
Co2286	228.616	{4 In2306	ppm	0.0019	0.0023	123.5	0.0002	0.0035
Cr2677	267.716	{1 Y_3600	ppm	0.0039	0.0002	4.048	0.0037	0.004
Cu3247	324.754	{1 Y_3600	ppm	0.0237	0.0003	1.414	0.024	0.0235
Fe2404	240.488	{1 In2306	ppm	0.3746	0.0036	0.9687	0.372	0.3771
K_7664	766.490	{ 4 Y_3710	ppm	6.791	0.0264	0.389	6.772	6.81
K_7698	769.896	{ 4 Y_3710	ppm	6.94	0.0693	0.9983	6.989	6.891
Li6707	670.784	{ 8 Y_3710	ppm	0.0207	0.0001	0.6924	0.0208	0.0206
Mg2790	279.079	{1 Y_3710	ppm	11.72	0.0241	0.2054	11.73	11.7
Mn2576	257.610	{1 Y_3600	ppm	0.18	0.002	1.104	0.1814	0.1786
Mn2576-2	257.610	{1 Y_3710	ppm	0.1792	0.0008	0.4298	0.1797	0.1787
Mo2020	202.030	{4 Y_2243	ppm	0.0216	0.0032	14.81	0.0193	0.0238
Na5895	589.592	{ 8 Y_3710	ppm	823	0.8448	0.1027	823.5	822.4
Na8183	818.326	{ 4 Y_3710	ppm	897.5	0.8956	0.0998	898.2	896.9
Ni2316	231.604	{4 In2306	ppm	0.0055	0.0023	42.12	0.0038	0.0071
P_1782	178.284	{4 In2306	ppm	0.6392	0.0058	0.9048	0.6433	0.6351
Pb2203	220.353	{4 In2306	ppm	0.0011	0.0009	88.44	0.0004	0.0017
S_1820	182.034	{4 Y_2243	ppm	-94250	906.6	0.962	-94890	-93610
Sb2068	206.833	{4 Y_2243	ppm	0.0016	0.003	189.5	-0.0005	0.0037
Se1960	196.090	{4 Y_2243	ppm	0.0048	0.0041	85.09	0.0019	0.0077
Si2516	251.611	{1 Y_3710	ppm	7.003	0.0056	0.0799	7.007	6.999
Sn1899	189.989	{4 In2306	ppm	0.0033	0.003	92.06	0.0011	0.0054
Sr4215	421.552	{ 8 Y_3710	ppm	0.8063	0.0014	0.1793	0.8052	0.8073
Ti3349	334.904	{1 Y_3600	ppm	0.0047	0.0001	1.297	0.0047	0.0048
Tl1908	190.856	{4 In2306	ppm	0.109	0.0332	30.49	0.0855	0.1325
V_2924	292.402	{1 Y_3600	ppm	0.0051	0.0002	3.641	0.0052	0.005
Zn2062	206.200	{4 In2306	ppm	0.1262	0.0007	0.5487	0.1257	0.1267

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	923.79	0.88266	0.09555	923.17	924.41
In2306	230.606	{4 Cts/S	13734	99.283	0.72293	13663	13804
Y_2243	224.306	{4 Cts/S	19092	155.68	0.81544	18982	19202
Y_3600	360.073	{ 9 Cts/S	172390	1815.8	1.0533	171110	173670
Y_3710	371.030	{ 9 Cts/S	53210	294.3	0.55309	53002	53418

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60892-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:11:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0005	179.5	0.0001	-0.0006
Al3082	308.215	{1 In2306	ppm	0.0131	0.0054	41.44	0.017	0.0093
As1890	189.042	{4 Y_2243	ppm	0.0001	0.0005	512	-0.0003	0.0005
B_2496	249.678	{1 Y_3710	ppm	1.053	0.0037	0.3506	1.055	1.05
Ba4554	455.403	{ 7 Y_3710	ppm	0.0677	0.0001	0.1825	0.0676	0.0678
Be3130	313.042	{1 Y_3710	ppm	0	0	47.42	0	0
Ca3158	315.887	{1 In2306	ppm	117.1	0.2764	0.236	116.9	117.3
Ca3181	318.128	{1 In2306	ppm	109.3	0.0653	0.0598	109.4	109.3
Cd2288	228.802	{4 Y_2243	ppm	0.0007	0	3.27	0.0008	0.0007
Co2286	228.616	{4 In2306	ppm	0	0.0001	138.6	0	-0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0011	0.0003	30.19	0.0009	0.0014
Cu3247	324.754	{1 Y_3600	ppm	0.0104	0.0002	1.49	0.0105	0.0103
Fe2404	240.488	{1 In2306	ppm	0.2588	0.0006	0.2439	0.2593	0.2584
K_7664	766.490	{ 4 Y_3710	ppm	93.44	0.2533	0.2711	93.26	93.62
K_7698	769.896	{ 4 Y_3710	ppm	95.01	0.433	0.4557	94.7	95.31
Li6707	670.784	{ 8 Y_3710	ppm	0.0476	0.0008	1.63	0.0471	0.0482
Mg2790	279.079	{1 Y_3710	ppm	287	0.0935	0.0326	287	287.1
Mn2576	257.610	{1 Y_3600	ppm	0.1366	0.0006	0.4096	0.1362	0.137
Mn2576-2	257.610	{1 Y_3710	ppm	0.1313	0.0002	0.1464	0.1312	0.1315
Mo2020	202.030	{4 Y_2243	ppm	0.0129	0.0002	1.718	0.0127	0.013
Na5895	589.592	{ 8 Y_3710	ppm	2018	32.58	1.614	2041	1995
Na8183	818.326	{ 4 Y_3710	ppm	2537	9.345	0.3684	2530	2543
Ni2316	231.604	{4 In2306	ppm	0.0022	0.0002	6.848	0.0023	0.0021
P_1782	178.284	{4 In2306	ppm	0.3996	0.0073	1.824	0.4047	0.3944
Pb2203	220.353	{4 In2306	ppm	-0.0011	0.0001	5.195	-0.0011	-0.0011
S_1820	182.034	{4 Y_2243	ppm	-132900	2191	1.649	-134400	-131300
Sb2068	206.833	{4 Y_2243	ppm	-0.0034	0.0005	15.1	-0.0037	-0.003
Se1960	196.090	{4 Y_2243	ppm	-0.0003	0.001	285.1	0.0004	-0.0011
Si2516	251.611	{1 Y_3710	ppm	3.644	0.0201	0.5517	3.629	3.658
Sn1899	189.989	{4 In2306	ppm	0	0.0004	15170	-0.0003	0.0003
Sr4215	421.552	{ 8 Y_3710	ppm	1.819	0.0074	0.4044	1.813	1.824
Ti3349	334.904	{1 Y_3600	ppm	0.0018	0.0004	20.32	0.002	0.0015
Tl1908	190.856	{4 In2306	ppm	0.0343	0.0131	38.14	0.0251	0.0436
V_2924	292.402	{1 Y_3600	ppm	-0.0008	0	3.265	-0.0008	-0.0008
Zn2062	206.200	{4 In2306	ppm	0.025	0.0004	1.416	0.0253	0.0248

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	889.74	1.8229	0.20488	888.45	891.03
In2306	230.606	{4 Cts/S	12478	192.73	1.5446	12341	12614
Y_2243	224.306	{4 Cts/S	18148	238.97	1.3168	17979	18317
Y_3600	360.073	{ 9 Cts/S	155760	409.37	0.26283	156050	155470
Y_3710	371.030	{ 9 Cts/S	51773	49.212	0.09505	51738	51807

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60892-a-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:13:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0007	249.5	0.0002	-0.0008
Al3082	308.215	{1 In2306	ppm	0.0206	0.0038	18.31	0.0233	0.0179
As1890	189.042	{4 Y_2243	ppm	0.0014	0.0015	108.1	0.0003	0.0025
B_2496	249.678	{1 Y_3710	ppm	1.07	0.0078	0.7291	1.065	1.076
Ba4554	455.403	{ 7 Y_3710	ppm	0.072	0.0005	0.6646	0.0716	0.0723
Be3130	313.042	{1 Y_3710	ppm	0	0	191.1	0.0001	0
Ca3158	315.887	{1 In2306	ppm	118.1	0.3387	0.2869	117.8	118.3
Ca3181	318.128	{1 In2306	ppm	110	0.3973	0.3613	109.7	110.2
Cd2288	228.802	{4 Y_2243	ppm	0.0009	0	1.572	0.0009	0.0009
Co2286	228.616	{4 In2306	ppm	-0.0001	0.0003	213.2	0.0001	-0.0003
Cr2677	267.716	{1 Y_3600	ppm	0.0011	0.0003	22.96	0.0009	0.0013
Cu3247	324.754	{1 Y_3600	ppm	0.0122	0.0001	0.9889	0.0123	0.0121
Fe2404	240.488	{1 In2306	ppm	0.3577	0.0027	0.7635	0.3597	0.3558
K_7664	766.490	{ 4 Y_3710	ppm	94.82	0.4301	0.4536	94.52	95.12
K_7698	769.896	{ 4 Y_3710	ppm	96.6	0.4336	0.4489	96.29	96.91
Li6707	670.784	{ 8 Y_3710	ppm	0.0505	0.0011	2.274	0.0497	0.0513
Mg2790	279.079	{1 Y_3710	ppm	287.7	1.067	0.3708	287	288.5
Mn2576	257.610	{1 Y_3600	ppm	0.1648	0.0002	0.092	0.1647	0.1649
Mn2576-2	257.610	{1 Y_3710	ppm	0.1579	0.0003	0.2148	0.1582	0.1577
Mo2020	202.030	{4 Y_2243	ppm	0.0128	0.0001	0.4647	0.0129	0.0128
Na5895	589.592	{ 8 Y_3710	ppm	1989	12.19	0.6132	1997	1980
Na8183	818.326	{ 4 Y_3710	ppm	2578	12.04	0.467	2570	2587
Ni2316	231.604	{4 In2306	ppm	0.0022	0	1.518	0.0023	0.0022
P_1782	178.284	{4 In2306	ppm	0.4284	0.0028	0.6527	0.4304	0.4264
Pb2203	220.353	{4 In2306	ppm	-0.0024	0.0004	15.43	-0.0027	-0.0022
S_1820	182.034	{4 Y_2243	ppm	-137100	445.1	0.3248	-137400	-136700
Sb2068	206.833	{4 Y_2243	ppm	-0.0024	0	1.857	-0.0024	-0.0025
Se1960	196.090	{4 Y_2243	ppm	0.0006	0.0028	465.6	0.0026	-0.0014
Si2516	251.611	{1 Y_3710	ppm	3.675	0.0326	0.8873	3.652	3.698
Sn1899	189.989	{4 In2306	ppm	-0.0001	0.0004	562.9	0.0002	-0.0004
Sr4215	421.552	{ 8 Y_3710	ppm	1.856	0.0086	0.462	1.85	1.862
Ti3349	334.904	{1 Y_3600	ppm	0.0021	0	1.12	0.0022	0.0021
Tl1908	190.856	{4 In2306	ppm	0.0092	0.0045	48.59	0.0061	0.0124
V_2924	292.402	{1 Y_3600	ppm	-0.0006	0.0003	49.1	-0.0004	-0.0009
Zn2062	206.200	{4 In2306	ppm	0.0237	0.0001	0.5532	0.0238	0.0236

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	906.73	1.1329	0.12494	907.53	905.93
In2306	230.606	{4 Cts/S	12367	16.734	0.13532	12355	12379
Y_2243	224.306	{4 Cts/S	17893	13.425	0.07503	17883	17902
Y_3600	360.073	{ 9 Cts/S	154740	39.277	0.02538	154770	154710
Y_3710	371.030	{ 9 Cts/S	52706	41.133	0.07804	52735	52677

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60701-a-1-b@20
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:16:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0	16.99	-0.0001	-0.0002
Al3082	308.215	{1 In2306	ppm	-0.0114	0.0045	39	-0.0083	-0.0146
As1890	189.042	{4 Y_2243	ppm	-0.0001	0.0008	805.6	-0.0006	0.0004
B_2496	249.678	{1 Y_3710	ppm	-0.0024	0.0036	146.9	0.0001	-0.005
Ba4554	455.403	{ ? Y_3710	ppm	0	0	78.27	0	-0.0001
Be3130	313.042	{1 Y_3710	ppm	0	0	161.3	0	0
Ca3158	315.887	{1 In2306	ppm	0.0409	0.0087	21.27	0.047	0.0347
Ca3181	318.128	{1 In2306	ppm	0.0137	0.0071	52.08	0.0086	0.0187
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0.0001	46.29	0.0002	0.0001
Co2286	228.616	{4 In2306	ppm	0	0.0001	1742	0.0001	-0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0005	0.0001	18.31	0.0005	0.0006
Cu3247	324.754	{1 Y_3600	ppm	0.0038	0.0001	1.889	0.0038	0.0037
Fe2404	240.488	{1 In2306	ppm	-0.0004	0.0054	1280	0.0034	-0.0043
K_7664	766.490	{ ? Y_3710	ppm	0.1297	0.0194	14.97	0.1434	0.116
K_7698	769.896	{ ? Y_3710	ppm	0.1166	0.0566	48.53	0.1566	0.0766
Li6707	670.784	{ ? Y_3710	ppm	0.0008	0.0012	138.9	0.0016	0
Mg2790	279.079	{1 Y_3710	ppm	0.0449	0.0136	30.18	0.0545	0.0353
Mn2576	257.610	{1 Y_3600	ppm	0.0002	0	17.89	0.0003	0.0002
Mn2576-2	257.610	{1 Y_3710	ppm	0	0.0013	3308	0.0009	-0.0008
Mo2020	202.030	{4 Y_2243	ppm	0.0002	0.0001	41.7	0.0001	0.0002
Na5895	589.592	{ ? Y_3710	ppm	13.25	1.358	10.25	14.21	12.29
Na8183	818.326	{ ? Y_3710	ppm	12.87	1.357	10.54	13.83	11.91
Ni2316	231.604	{4 In2306	ppm	0.0002	0.0003	151.1	0.0004	0
P_1782	178.284	{4 In2306	ppm	0.0029	0.0003	9.602	0.0027	0.0031
Pb2203	220.353	{4 In2306	ppm	0.0009	0.0006	72.22	0.0004	0.0013
S_1820	182.034	{4 Y_2243	ppm	-1464	124.4	8.494	-1376	-1552
Sb2068	206.833	{4 Y_2243	ppm	-0.0022	0.0014	63.93	-0.0032	-0.0012
Se1960	196.090	{4 Y_2243	ppm	-0.0007	0.0007	107	-0.0002	-0.0012
Si2516	251.611	{1 Y_3710	ppm	0.0103	0.0012	11.2	0.0095	0.0111
Sn1899	189.989	{4 In2306	ppm	0.0025	0.0004	16.21	0.0028	0.0022
Sr4215	421.552	{ ? Y_3710	ppm	0.0004	0.0001	32.76	0.0005	0.0003
Ti3349	334.904	{1 Y_3600	ppm	-0.0001	0.0001	75.16	-0.0001	-0.0002
Tl1908	190.856	{4 In2306	ppm	0.0027	0.0024	88.2	0.001	0.0044
V_2924	292.402	{1 Y_3600	ppm	0.0001	0	2.281	0.0001	0.0001
Zn2062	206.200	{4 In2306	ppm	0.0027	0	1.304	0.0028	0.0027

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	986.04	64.196	6.5104	940.65	1031.4
In2306	230.606	{4 Cts/S	19049	52.201	0.27404	19086	19012
Y_2243	224.306	{4 Cts/S	22318	1.7154	0.00769	22320	22317
Y_3600	360.073	{ ? Cts/S	202760	1143.3	0.56386	203570	201960
Y_3710	371.030	{ ? Cts/S	55458	3586.9	6.4679	52922	57994

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:18:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2586	0.0006	0.2469	0.2591	0.2582
Al3082	308.215 {1	In2306	ppm	2.44	0.0307	1.26	2.418	2.461
As1890	189.042 {4	Y_2243	ppm	0.5114	0.0084	1.652	0.5054	0.5173
B_2496	249.678 {1	Y_3710	ppm	0.477	0.0039	0.8247	0.4742	0.4798
Ba4554	455.403 {	Y_3710	ppm	0.4878	0.0053	1.082	0.4841	0.4915
Be3130	313.042 {1	Y_3710	ppm	0.4903	0.0046	0.9424	0.487	0.4935
Ca3158	315.887 {1	In2306	ppm	12.85	0.0936	0.728	12.79	12.92
Ca3181	318.128 {1	In2306	ppm	11.92	0.0332	0.2783	11.9	11.95
Cd2288	228.802 {4	Y_2243	ppm	0.5039	0.0079	1.574	0.4982	0.5095
Co2286	228.616 {4	In2306	ppm	0.4809	0.0079	1.652	0.4753	0.4865
Cr2677	267.716 {1	Y_3600	ppm	0.4975	0.0026	0.5156	0.4993	0.4957
Cu3247	324.754 {1	Y_3600	ppm	0.5109	0.0018	0.3468	0.5122	0.5097
Fe2404	240.488 {1	In2306	ppm	2.434	0.0198	0.8141	2.42	2.448
K_7664	766.490 {	Y_3710	ppm	12.25	0.1962	1.601	12.12	12.39
K_7698	769.896 {	Y_3710	ppm	12.41	0.2173	1.751	12.26	12.56
Li6707	670.784 {	Y_3710	ppm	0.5037	0.0098	1.952	0.4968	0.5107
Mg2790	279.079 {1	Y_3710	ppm	4.734	0.0568	1.201	4.694	4.775
Mn2576	257.610 {1	Y_3600	ppm	0.5317	0.0014	0.2599	0.5327	0.5307
Mn2576-2	257.610 {1	Y_3710	ppm	0.5211	0.0038	0.7235	0.5185	0.5238
Mo2020	202.030 {4	Y_2243	ppm	0.5326	0.0074	1.39	0.5274	0.5379
Na5895	589.592 {	Y_3710	ppm	12.65	0.2062	1.63	12.51	12.8
Na8183	818.326 {	Y_3710	ppm	12.62	0.2042	1.618	12.47	12.76
Ni2316	231.604 {4	In2306	ppm	0.4956	0.0079	1.597	0.49	0.5012
P_1782	178.284 {4	In2306	ppm	0.4902	0.0088	1.787	0.484	0.4963
Pb2203	220.353 {4	In2306	ppm	0.4882	0.0094	1.918	0.4816	0.4949
S_1820	182.034 {4	Y_2243	ppm	-854	13.15	1.54	-844.7	-863.3
Sb2068	206.833 {4	Y_2243	ppm	0.5035	0.0059	1.163	0.4994	0.5077
Se1960	196.090 {4	Y_2243	ppm	0.5208	0.0093	1.786	0.5142	0.5273
Si2516	251.611 {1	Y_3710	ppm	0.8905	0.0186	2.086	0.8773	0.9036
Sn1899	189.989 {4	In2306	ppm	0.4971	0.0086	1.725	0.491	0.5031
Sr4215	421.552 {	Y_3710	ppm	0.2552	0.0035	1.386	0.2527	0.2577
Ti3349	334.904 {1	Y_3600	ppm	0.4905	0.0008	0.1629	0.4911	0.4899
Tl1908	190.856 {4	In2306	ppm	0.4431	0.0269	6.081	0.4622	0.4241
V_2924	292.402 {1	Y_3600	ppm	0.4914	0.0008	0.1699	0.492	0.4908
Zn2062	206.200 {4	In2306	ppm	0.4719	0.0081	1.722	0.4662	0.4777

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1021.7	3.1908	0.31231	1023.9	1019.4
In2306	230.606 {4	Cts/S	18254	244.39	1.3389	18427	18081
Y_2243	224.306 {4	Cts/S	22079	260.81	1.1812	22263	21895
Y_3600	360.073 {	Cts/S	200360	613.63	0.30627	199920	200790
Y_3710	371.030 {	Cts/S	57567	306.1	0.53172	57783	57351

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:21:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0054	0.0003	5.886	0.0056	0.0051
Al3082	308.215 {1	In2306	ppm	0.0985	0.0216	21.94	0.1138	0.0833
As1890	189.042 {4	Y_2243	ppm	0.0101	0.0001	0.9642	0.0102	0.0101
B_2496	249.678 {1	Y_3710	ppm	0.0063	0.0035	54.69	0.0088	0.0039
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0002	1.773	0.01	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.005	0	0.9512	0.005	0.005
Ca3158	315.887 {1	In2306	ppm	0.1196	0.0028	2.326	0.1216	0.1176
Ca3181	318.128 {1	In2306	ppm	0.0934	0.0035	3.749	0.0958	0.0909
Cd2288	228.802 {4	Y_2243	ppm	0.0055	0.0002	4.054	0.0054	0.0057
Co2286	228.616 {4	In2306	ppm	0.0096	0.0004	4.461	0.0093	0.0099
Cr2677	267.716 {1	Y_3600	ppm	0.01	0.0002	2.411	0.0101	0.0098
Cu3247	324.754 {1	Y_3600	ppm	0.0144	0.0008	5.292	0.0149	0.0138
Fe2404	240.488 {1	In2306	ppm	0.0971	0.0005	0.5058	0.0967	0.0974
K_7664	766.490 {	Y_3710	ppm	0.6246	0.003	0.4784	0.6267	0.6225
K_7698	769.896 {	Y_3710	ppm	0.6236	0.0364	5.833	0.6494	0.5979
Li6707	670.784 {	Y_3710	ppm	0.0102	0.0001	1.208	0.0102	0.0103
Mg2790	279.079 {1	Y_3710	ppm	0.091	0.0111	12.16	0.0988	0.0832
Mn2576	257.610 {1	Y_3600	ppm	0.0109	0	0.3763	0.0109	0.011
Mn2576-2	257.610 {1	Y_3710	ppm	0.0112	0.0004	3.449	0.011	0.0115
Mo2020	202.030 {4	Y_2243	ppm	0.0127	0.0008	6.18	0.0121	0.0132
Na5895	589.592 {	Y_3710	ppm	0.745	0.005	0.6759	0.7485	0.7414
Na8183	818.326 {	Y_3710	ppm	0.5992	0.0684	11.42	0.5508	0.6476
Ni2316	231.604 {4	In2306	ppm	0.0101	0.0004	4.1	0.0098	0.0104
P_1782	178.284 {4	In2306	ppm	0.0092	0	0.1398	0.0092	0.0093
Pb2203	220.353 {4	In2306	ppm	0.0105	0.0007	7.043	0.01	0.0111
S_1820	182.034 {4	Y_2243	ppm	7.964	0.5327	6.689	8.341	7.587
Sb2068	206.833 {4	Y_2243	ppm	0.0109	0.0007	6.417	0.0104	0.0114
Se1960	196.090 {4	Y_2243	ppm	0.0119	0.0005	4.33	0.0122	0.0115
Si2516	251.611 {1	Y_3710	ppm	0.0086	0.0055	63.98	0.0047	0.0124
Sn1899	189.989 {4	In2306	ppm	0.0102	0.0011	11.04	0.0094	0.011
Sr4215	421.552 {	Y_3710	ppm	0.0053	0	0.3767	0.0053	0.0053
Ti3349	334.904 {1	Y_3600	ppm	0.0103	0.0001	1.269	0.0102	0.0104
Tl1908	190.856 {4	In2306	ppm	0.0599	0.0175	29.25	0.0475	0.0723
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0001	1.366	0.01	0.0098
Zn2062	206.200 {4	In2306	ppm	0.0097	0.0003	2.643	0.0095	0.0098

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1023.9	1.4238	0.13905	1024.9	1022.9
In2306	230.606 {4	Cts/S	19548	67.613	0.34589	19500	19595
Y_2243	224.306 {4	Cts/S	22632	61.408	0.27134	22588	22675
Y_3600	360.073 {	Cts/S	204930	701.77	0.34243	205430	204440
Y_3710	371.030 {	Cts/S	57376	13.273	0.02313	57366	57385

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:23:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0002	71.37	-0.0002	-0.0005
Al3082	308.215	{1 In2306	ppm	-0.013	0	0.2874	-0.013	-0.0129
As1890	189.042	{4 Y_2243	ppm	0	0.0002	744.6	0.0001	-0.0002
B_2496	249.678	{1 Y_3710	ppm	-0.0063	0.0008	13.13	-0.0057	-0.0069
Ba4554	455.403	{ ï Y_3710	ppm	-0.0002	0.0001	25.8	-0.0002	-0.0002
Be3130	313.042	{1 Y_3710	ppm	0	0	10.45	0	0
Ca3158	315.887	{1 In2306	ppm	-0.0037	0.0079	216.9	-0.0093	0.0019
Ca3181	318.128	{1 In2306	ppm	-0.0135	0.0028	20.5	-0.0116	-0.0155
Cd2288	228.802	{4 Y_2243	ppm	0.0001	0	11.01	0.0001	0.0002
Co2286	228.616	{4 In2306	ppm	-0.0001	0	81.86	0	-0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0002	0.0003	163.4	0	0.0003
Cu3247	324.754	{1 Y_3600	ppm	0.0039	0.0002	4.503	0.004	0.0038
Fe2404	240.488	{1 In2306	ppm	0.0017	0.003	171.8	0.0039	-0.0004
K_7664	766.490	{ ¿ Y_3710	ppm	0.0198	0.0013	6.39	0.0189	0.0207
K_7698	769.896	{ ¿ Y_3710	ppm	-0.0001	0.0439	73980	0.031	-0.0311
Li6707	670.784	{ ß Y_3710	ppm	0.0005	0.0002	43.81	0.0006	0.0003
Mg2790	279.079	{1 Y_3710	ppm	0.0079	0.012	151.3	0.0165	-0.0006
Mn2576	257.610	{1 Y_3600	ppm	0	0.0001	568.2	0.0001	-0.0001
Mn2576-2	257.610	{1 Y_3710	ppm	0	0.0003	868.9	0.0002	-0.0003
Mo2020	202.030	{4 Y_2243	ppm	0.0004	0.0001	32.23	0.0003	0.0005
Na5895	589.592	{ ß Y_3710	ppm	0.1032	0.0081	7.81	0.1089	0.0975
Na8183	818.326	{ ¿ Y_3710	ppm	0.1534	0.1463	95.38	0.2569	0.0499
Ni2316	231.604	{4 In2306	ppm	0.0002	0	17.47	0.0002	0.0002
P_1782	178.284	{4 In2306	ppm	0.0014	0.0003	21.59	0.0016	0.0012
Pb2203	220.353	{4 In2306	ppm	0.0003	0.0001	40.46	0.0004	0.0002
S_1820	182.034	{4 Y_2243	ppm	8.537	0.3534	4.14	8.787	8.287
Sb2068	206.833	{4 Y_2243	ppm	-0.0012	0.0005	43.09	-0.0009	-0.0016
Se1960	196.090	{4 Y_2243	ppm	0.0008	0.0016	192.3	-0.0003	0.0019
Si2516	251.611	{1 Y_3710	ppm	0.0034	0.0048	143.6	0.0068	-0.0001
Sn1899	189.989	{4 In2306	ppm	0	0.0001	376.7	0	0.0001
Sr4215	421.552	{ ß Y_3710	ppm	0.0001	0.0001	128.7	0.0002	0
Ti3349	334.904	{1 Y_3600	ppm	0	0	82.54	0	0.0001
Tl1908	190.856	{4 In2306	ppm	0.0149	0.0071	47.7	0.0099	0.02
V_2924	292.402	{1 Y_3600	ppm	0	0.0001	216.7	0.0001	0
Zn2062	206.200	{4 In2306	ppm	0.0001	0	7.211	0.0001	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1035.1	15.767	1.5233	1023.9	1046.2
In2306	230.606	{4 Cts/S	19640	96.562	0.49166	19709	19572
Y_2243	224.306	{4 Cts/S	22677	102.86	0.4536	22750	22604
Y_3600	360.073	{ ° Cts/S	200930	8236.3	4.099	206760	195110
Y_3710	371.030	{ ° Cts/S	57812	771.22	1.334	57267	58357

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60701-a-2-b@20
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:25:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0.0002	82.66	-0.0003	-0.0001
Al3082	308.215	{1 In2306	ppm	-0.0121	0.0117	96.38	-0.0039	-0.0204
As1890	189.042	{4 Y_2243	ppm	-0.0005	0.0019	371.9	0.0008	-0.0018
B_2496	249.678	{1 Y_3710	ppm	-0.0078	0.0011	13.53	-0.0086	-0.0071
Ba4554	455.403	{ 7 Y_3710	ppm	0.0001	0	38.19	0.0001	0.0001
Be3130	313.042	{1 Y_3710	ppm	0	0	152.2	0	0
Ca3158	315.887	{1 In2306	ppm	0.0112	0.0101	89.91	0.0041	0.0183
Ca3181	318.128	{1 In2306	ppm	-0.015	0.0048	32.17	-0.0116	-0.0184
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0.0001	66.47	0.0001	0.0002
Co2286	228.616	{4 In2306	ppm	0	0.0001	281.7	0	-0.0001
Cr2677	267.716	{1 Y_3600	ppm	0.0006	0.0001	18.25	0.0006	0.0007
Cu3247	324.754	{1 Y_3600	ppm	0.0044	0.0002	5.579	0.0046	0.0042
Fe2404	240.488	{1 In2306	ppm	0.0001	0.0018	1622	-0.0012	0.0014
K_7664	766.490	{ 4 Y_3710	ppm	0.0182	0.026	142.8	-0.0002	0.0365
K_7698	769.896	{ 4 Y_3710	ppm	0.0268	0.02	74.51	0.0127	0.0409
Li6707	670.784	{ 8 Y_3710	ppm	-0.001	0.0002	17.7	-0.0008	-0.0011
Mg2790	279.079	{1 Y_3710	ppm	-0.0062	0.0086	137.4	-0.0123	-0.0002
Mn2576	257.610	{1 Y_3600	ppm	0.0001	0.0001	255.6	0	0.0002
Mn2576-2	257.610	{1 Y_3710	ppm	-0.0004	0.0004	107.4	-0.0007	-0.0001
Mo2020	202.030	{4 Y_2243	ppm	0.0001	0	26.19	0.0002	0.0001
Na5895	589.592	{ 8 Y_3710	ppm	15.89	0.0652	0.4105	15.84	15.93
Na8183	818.326	{ 4 Y_3710	ppm	16.17	0.207	1.28	16.02	16.32
Ni2316	231.604	{4 In2306	ppm	0.0001	0.0001	34.87	0.0001	0.0002
P_1782	178.284	{4 In2306	ppm	0.0022	0.0008	38.06	0.0028	0.0016
Pb2203	220.353	{4 In2306	ppm	0.0004	0.0008	180.6	-0.0001	0.001
S_1820	182.034	{4 Y_2243	ppm	-1535	16.21	1.056	-1523	-1546
Sb2068	206.833	{4 Y_2243	ppm	-0.0024	0.0005	20.1	-0.0021	-0.0028
Se1960	196.090	{4 Y_2243	ppm	-0.0002	0.0004	225.9	0.0001	-0.0005
Si2516	251.611	{1 Y_3710	ppm	0.0008	0.0001	17.67	0.0007	0.0009
Sn1899	189.989	{4 In2306	ppm	0	0.0002	1260	0.0001	-0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0.0001	0	76.48	0.0001	0
Ti3349	334.904	{1 Y_3600	ppm	-0.0001	0	7.298	-0.0001	-0.0002
Tl1908	190.856	{4 In2306	ppm	0.0023	0.0028	122.3	0.0003	0.0042
V_2924	292.402	{1 Y_3600	ppm	0	0.0001	1454	0.0001	-0.0001
Zn2062	206.200	{4 In2306	ppm	0.003	0	0.8936	0.003	0.003

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1008	4.9272	0.4888	1011.5	1004.5
In2306	230.606	{4 Cts/S	19170	147.85	0.77126	19275	19066
Y_2243	224.306	{4 Cts/S	22540	169.57	0.75231	22659	22420
Y_3600	360.073	{ 9 Cts/S	200980	767.57	0.38191	201520	200440
Y_3710	371.030	{ 9 Cts/S	56273	115.42	0.2051	56354	56191

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60701-a-3-b@20
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:28:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0001	0.0001	47.13	-0.0001	-0.0001
Al3082	308.215 {1	In2306	ppm	-0.0152	0.0183	120.4	-0.0282	-0.0023
As1890	189.042 {4	Y_2243	ppm	-0.0004	0.0004	97.01	-0.0001	-0.0007
B_2496	249.678 {1	Y_3710	ppm	-0.0053	0.0003	6.582	-0.0055	-0.0051
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0.0001	107	-0.0002	0
Be3130	313.042 {1	Y_3710	ppm	-0.0001	0	24.47	-0.0001	-0.0001
Ca3158	315.887 {1	In2306	ppm	0.0221	0.0063	28.51	0.0265	0.0176
Ca3181	318.128 {1	In2306	ppm	-0.0027	0.0152	569.2	-0.0134	0.0081
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	9.794	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	-0.0001	0	12.7	-0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0007	0.0001	11.86	0.0007	0.0008
Cu3247	324.754 {1	Y_3600	ppm	0.0044	0.0001	3.341	0.0045	0.0043
Fe2404	240.488 {1	In2306	ppm	0.004	0.0029	71.38	0.002	0.006
K_7664	766.490 {	Y_3710	ppm	0.0157	0.011	70.26	0.0079	0.0234
K_7698	769.896 {	Y_3710	ppm	0.0164	0.0019	11.58	0.0177	0.0151
Li6707	670.784 {	Y_3710	ppm	-0.0007	0.0003	40.15	-0.0005	-0.0009
Mg2790	279.079 {1	Y_3710	ppm	-0.0077	0.0219	283.1	0.0077	-0.0232
Mn2576	257.610 {1	Y_3600	ppm	0	0.0002	562.5	0.0001	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0004	0.0008	218.5	0.0002	-0.0009
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0	16.25	0.0001	0.0001
Na5895	589.592 {	Y_3710	ppm	17.4	0.1754	1.008	17.27	17.52
Na8183	818.326 {	Y_3710	ppm	17.39	0.1872	1.076	17.26	17.52
Ni2316	231.604 {4	In2306	ppm	0.0002	0.0001	52.75	0.0001	0.0003
P_1782	178.284 {4	In2306	ppm	0.0018	0.0002	9.181	0.0016	0.0019
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0001	11.8	0.0006	0.0008
S_1820	182.034 {4	Y_2243	ppm	-1449	11.05	0.7621	-1441	-1457
Sb2068	206.833 {4	Y_2243	ppm	-0.0017	0.0002	13.06	-0.0019	-0.0016
Se1960	196.090 {4	Y_2243	ppm	0.002	0.0004	17.44	0.0018	0.0023
Si2516	251.611 {1	Y_3710	ppm	0.0071	0.0022	31.13	0.0087	0.0056
Sn1899	189.989 {4	In2306	ppm	0.0003	0	9.038	0.0003	0.0003
Sr4215	421.552 {	Y_3710	ppm	0.0001	0	13.55	0.0001	0.0001
Ti3349	334.904 {1	Y_3600	ppm	0.0004	0.0002	66.85	0.0005	0.0002
Tl1908	190.856 {4	In2306	ppm	-0.002	0.0002	9.149	-0.0019	-0.0022
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0003	306.6	-0.0001	0.0003
Zn2062	206.200 {4	In2306	ppm	0.0028	0	0.9769	0.0027	0.0028

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1014.2	3.4617	0.34134	1011.7	1016.6
In2306	230.606 {4	Cts/S	18789	167.1	0.88937	18907	18671
Y_2243	224.306 {4	Cts/S	22179	168.28	0.75873	22298	22060
Y_3600	360.073 {	Cts/S	202420	842.93	0.41643	201820	203020
Y_3710	371.030 {	Cts/S	56879	353.65	0.62175	57129	56629

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60817-b-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:30:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0005	0.0004	88.89	-0.0002	-0.0008
Al3082	308.215	{1 In2306	ppm	0.1552	0.002	1.317	0.1566	0.1537
As1890	189.042	{4 Y_2243	ppm	1.494	0.0031	0.2095	1.497	1.492
B_2496	249.678	{1 Y_3710	ppm	8.461	0.0335	0.3959	8.437	8.485
Ba4554	455.403	{ ï Y_3710	ppm	0.1038	0.0002	0.2184	0.1039	0.1036
Be3130	313.042	{1 Y_3710	ppm	0	0	25.23	0	0
Ca3158	315.887	{1 In2306	ppm	11.51	0.0614	0.5331	11.47	11.56
Ca3181	318.128	{1 In2306	ppm	10.62	0.0768	0.7233	10.56	10.67
Cd2288	228.802	{4 Y_2243	ppm	-0.0008	0	4.371	-0.0009	-0.0008
Co2286	228.616	{4 In2306	ppm	0	0.0002	445.5	0.0001	-0.0002
Cr2677	267.716	{1 Y_3600	ppm	0.0022	0.0003	13.06	0.002	0.0024
Cu3247	324.754	{1 Y_3600	ppm	0.0094	0.0001	1.58	0.0095	0.0093
Fe2404	240.488	{1 In2306	ppm	0.079	0.0014	1.747	0.078	0.08
K_7664	766.490	{ ⁄ Y_3710	ppm	28.18	0.0068	0.0241	28.19	28.18
K_7698	769.896	{ ⁄ Y_3710	ppm	28.86	0.1598	0.5539	28.75	28.97
Li6707	670.784	{ ₹ Y_3710	ppm	0.0948	0.0001	0.1208	0.0947	0.0948
Mg2790	279.079	{1 Y_3710	ppm	17.85	0.1939	1.086	17.71	17.98
Mn2576	257.610	{1 Y_3600	ppm	0.0105	0.0001	1.192	0.0106	0.0104
Mn2576-2	257.610	{1 Y_3710	ppm	0.0097	0.0002	2.148	0.0099	0.0096
Mo2020	202.030	{4 Y_2243	ppm	0.0459	0	0.058	0.0458	0.0459
Na5895	589.592	{ ₹ Y_3710	ppm	^ *****	-----	-----	^ -----	^ -----
Na8183	818.326	{ ⁄ Y_3710	ppm	2884	11.34	0.3932	2876	2892
Ni2316	231.604	{4 In2306	ppm	0.0021	0.0002	10.42	0.0019	0.0022
P_1782	178.284	{4 In2306	ppm	1.196	0.0049	0.409	1.193	1.2
Pb2203	220.353	{4 In2306	ppm	-0.0009	0.0001	8.536	-0.001	-0.0008
S_1820	182.034	{4 Y_2243	ppm	-210300	804.2	0.3824	-209700	-210900
Sb2068	206.833	{4 Y_2243	ppm	-0.002	0.0003	15.72	-0.0018	-0.0023
Se1960	196.090	{4 Y_2243	ppm	0.0191	0.0029	15.05	0.0171	0.0212
Si2516	251.611	{1 Y_3710	ppm	11.75	0.0434	0.3692	11.72	11.78
Sn1899	189.989	{4 In2306	ppm	0.0006	0.0003	47.91	0.0004	0.0009
Sr4215	421.552	{ ₹ Y_3710	ppm	4.048	0.049	1.211	4.013	4.083
Ti3349	334.904	{1 Y_3600	ppm	0.0031	0.0001	2.359	0.0032	0.003
Tl1908	190.856	{4 In2306	ppm	-0.006	0.0018	30.03	-0.0047	-0.0073
V_2924	292.402	{1 Y_3600	ppm	0.585	0.0031	0.5222	0.5828	0.5872
Zn2062	206.200	{4 In2306	ppm	0.0049	0	0.7153	0.0049	0.0049

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	935.38	13.985	1.4951	945.27	925.49
In2306	230.606	{4 Cts/S	12924	48.676	0.37664	12958	12889
Y_2243	224.306	{4 Cts/S	18752	92.036	0.4908	18817	18687
Y_3600	360.073	{ ⁹ Cts/S	157120	732.63	0.46629	157640	156600
Y_3710	371.030	{ ⁹ Cts/S	53197	793.49	1.4916	53758	52636

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60841-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:33:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0004	132.6	0	-0.0006
Al3082	308.215	{1 In2306	ppm	0.0641	0.0127	19.77	0.073	0.0551
As1890	189.042	{4 Y_2243	ppm	0.0056	0.0009	16.78	0.0049	0.0062
B_2496	249.678	{1 Y_3710	ppm	0.0955	0.0022	2.298	0.097	0.0939
Ba4554	455.403	{ 7 Y_3710	ppm	0.0611	0.0003	0.5323	0.0609	0.0614
Be3130	313.042	{1 Y_3710	ppm	0	0	129.3	0	0
Ca3158	315.887	{1 In2306	ppm	61.4	0.4848	0.7896	61.05	61.74
Ca3181	318.128	{1 In2306	ppm	56.76	0.1761	0.3102	56.63	56.88
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	20.53	0.0003	0.0002
Co2286	228.616	{4 In2306	ppm	0.0007	0.0001	9.185	0.0007	0.0006
Cr2677	267.716	{1 Y_3600	ppm	0.0046	0.0002	5.236	0.0047	0.0044
Cu3247	324.754	{1 Y_3600	ppm	0.0109	0.0002	1.912	0.0108	0.0111
Fe2404	240.488	{1 In2306	ppm	3.729	0.0135	0.3618	3.72	3.739
K_7664	766.490	{ 4 Y_3710	ppm	445.1	1.826	0.4102	443.8	446.4
K_7698	769.896	{ 4 Y_3710	ppm	460.4	2.121	0.4608	458.9	461.9
Li6707	670.784	{ 8 Y_3710	ppm	0.0114	0.0009	7.449	0.0108	0.012
Mg2790	279.079	{1 Y_3710	ppm	4.988	0.0038	0.0761	4.985	4.991
Mn2576	257.610	{1 Y_3600	ppm	0.1422	0.0012	0.8108	0.1414	0.1431
Mn2576-2	257.610	{1 Y_3710	ppm	0.135	0.0016	1.199	0.1338	0.1361
Mo2020	202.030	{4 Y_2243	ppm	0.0034	0.0001	2.769	0.0033	0.0034
Na5895	589.592	{ 8 Y_3710	ppm	1774	30.52	1.721	1795	1752
Na8183	818.326	{ 4 Y_3710	ppm	2228	14.08	0.6321	2218	2238
Ni2316	231.604	{4 In2306	ppm	0.0087	0.0003	3.392	0.0089	0.0085
P_1782	178.284	{4 In2306	ppm	10.43	0.0236	0.2262	10.45	10.41
Pb2203	220.353	{4 In2306	ppm	0.0004	0.0001	25.34	0.0005	0.0004
S_1820	182.034	{4 Y_2243	ppm	-201600	293.8	0.1458	-201800	-201400
Sb2068	206.833	{4 Y_2243	ppm	-0.0034	0.0007	20.74	-0.0039	-0.0029
Se1960	196.090	{4 Y_2243	ppm	0.0012	0.0027	221.8	-0.0007	0.0031
Si2516	251.611	{1 Y_3710	ppm	2.223	0.0137	0.6172	2.213	2.233
Sn1899	189.989	{4 In2306	ppm	0.0003	0.0001	29.15	0.0004	0.0002
Sr4215	421.552	{ 8 Y_3710	ppm	0.3428	0.0022	0.6341	0.3413	0.3443
Ti3349	334.904	{1 Y_3600	ppm	0.0005	0.0001	27.29	0.0004	0.0006
Tl1908	190.856	{4 In2306	ppm	-0.0071	0.0002	2.972	-0.007	-0.0073
V_2924	292.402	{1 Y_3600	ppm	0.0033	0.0002	5.92	0.0032	0.0035
Zn2062	206.200	{4 In2306	ppm	0.1619	0.0001	0.0802	0.162	0.1618

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	937.03	4.6621	0.49754	940.33	933.73
In2306	230.606	{4 Cts/S	12973	14.419	0.11115	12983	12962
Y_2243	224.306	{4 Cts/S	18708	2.6385	0.0141	18710	18706
Y_3600	360.073	{ 9 Cts/S	159730	861.82	0.53956	160330	159120
Y_3710	371.030	{ 9 Cts/S	54138	146.82	0.2712	54242	54034

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60853-f-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:35:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0003	0.0001	40.72	0.0002	0.0004
Al3082	308.215 {1	In2306	ppm	0.1219	0.0154	12.66	0.111	0.1328
As1890	189.042 {4	Y_2243	ppm	0.0078	0.0006	7.242	0.0074	0.0082
B_2496	249.678 {1	Y_3710	ppm	0.5184	0.0079	1.523	0.5128	0.524
Ba4554	455.403 {	Y_3710	ppm	0.312	0.0049	1.566	0.3086	0.3155
Be3130	313.042 {1	Y_3710	ppm	0	0	100.8	0	0.0001
Ca3158	315.887 {1	In2306	ppm	41.24	0.3902	0.9463	40.96	41.51
Ca3181	318.128 {1	In2306	ppm	38.02	0.4301	1.131	37.71	38.32
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	13.14	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	0	0	95.88	0	0
Cr2677	267.716 {1	Y_3600	ppm	0.0019	0.0005	24.26	0.0022	0.0016
Cu3247	324.754 {1	Y_3600	ppm	0.0057	0	0.3479	0.0056	0.0057
Fe2404	240.488 {1	In2306	ppm	0.0842	0.0003	0.374	0.0844	0.084
K_7664	766.490 {	Y_3710	ppm	13.05	0.1437	1.101	12.95	13.15
K_7698	769.896 {	Y_3710	ppm	13.34	0.1648	1.236	13.22	13.46
Li6707	670.784 {	Y_3710	ppm	0.0437	0.0011	2.537	0.0429	0.0444
Mg2790	279.079 {1	Y_3710	ppm	10.33	0.1492	1.444	10.22	10.43
Mn2576	257.610 {1	Y_3600	ppm	0.0188	0	0.121	0.0188	0.0188
Mn2576-2	257.610 {1	Y_3710	ppm	0.018	0.0004	2.4	0.0183	0.0176
Mo2020	202.030 {4	Y_2243	ppm	0.3765	0.0048	1.286	0.3731	0.38
Na5895	589.592 {	Y_3710	ppm	1350	6.71	0.4972	1345	1354
Na8183	818.326 {	Y_3710	ppm	1602	21.99	1.373	1586	1617
Ni2316	231.604 {4	In2306	ppm	0.0069	0.0001	1.182	0.0069	0.007
P_1782	178.284 {4	In2306	ppm	1.643	0.0338	2.06	1.619	1.667
Pb2203	220.353 {4	In2306	ppm	-0.0002	0.0011	455.3	0.0005	-0.001
S_1820	182.034 {4	Y_2243	ppm	-445300	7199	1.617	-440200	-450400
Sb2068	206.833 {4	Y_2243	ppm	-0.0017	0.0001	5.1	-0.0016	-0.0017
Se1960	196.090 {4	Y_2243	ppm	0.0831	0.0018	2.199	0.0818	0.0844
Si2516	251.611 {1	Y_3710	ppm	9.601	0.1216	1.267	9.515	9.687
Sn1899	189.989 {4	In2306	ppm	0.0002	0.0002	113	0	0.0003
Sr4215	421.552 {	Y_3710	ppm	1.455	0.0226	1.556	1.439	1.471
Ti3349	334.904 {1	Y_3600	ppm	0.001	0.0002	18.56	0.0011	0.0008
Tl1908	190.856 {4	In2306	ppm	-0.0049	0.001	19.76	-0.0055	-0.0042
V_2924	292.402 {1	Y_3600	ppm	0.0111	0.0001	1.156	0.0112	0.011
Zn2062	206.200 {4	In2306	ppm	0.1102	0.0024	2.216	0.1085	0.112

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	952.42	1.5465	0.16237	953.51	951.32
In2306	230.606 {4	Cts/S	13615	188.11	1.3816	13748	13482
Y_2243	224.306 {4	Cts/S	19225	235.14	1.2231	19391	19059
Y_3600	360.073 {	Cts/S	167430	547.78	0.32717	167820	167040
Y_3710	371.030 {	Cts/S	55078	120.46	0.21871	55163	54993

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60876-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:38:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0.0005	258.4	-0.0006	0.0002
Al3082	308.215	{1 In2306	ppm	0.0813	0.01	12.29	0.0742	0.0883
As1890	189.042	{4 Y_2243	ppm	0.0029	0.0006	19.7	0.0033	0.0025
B_2496	249.678	{1 Y_3710	ppm	0.1925	0.0022	1.156	0.1909	0.1941
Ba4554	455.403	{ 7 Y_3710	ppm	0.0977	0.0008	0.7862	0.0971	0.0982
Be3130	313.042	{1 Y_3710	ppm	0.0037	0	0.9287	0.0037	0.0037
Ca3158	315.887	{1 In2306	ppm	204.5	2.711	1.326	202.5	206.4
Ca3181	318.128	{1 In2306	ppm	187	2.068	1.106	185.6	188.5
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	3.023	0.0002	0.0003
Co2286	228.616	{4 In2306	ppm	0	0	112.9	0.0001	0
Cr2677	267.716	{1 Y_3600	ppm	0.0066	0.0002	3.131	0.0067	0.0064
Cu3247	324.754	{1 Y_3600	ppm	0.0281	0.0001	0.4729	0.028	0.0282
Fe2404	240.488	{1 In2306	ppm	0.1796	0.0034	1.905	0.1772	0.182
K_7664	766.490	{ 4 Y_3710	ppm	16.73	0.0733	0.4385	16.68	16.78
K_7698	769.896	{ 4 Y_3710	ppm	17.13	0.162	0.9458	17.02	17.25
Li6707	670.784	{ 8 Y_3710	ppm	0.0482	0.0012	2.423	0.0474	0.049
Mg2790	279.079	{1 Y_3710	ppm	6.746	0.067	0.9938	6.699	6.793
Mn2576	257.610	{1 Y_3600	ppm	0.0201	0.0001	0.5239	0.0201	0.0202
Mn2576-2	257.610	{1 Y_3710	ppm	0.0191	0.0009	4.736	0.0185	0.0197
Mo2020	202.030	{4 Y_2243	ppm	0.1287	0.001	0.7889	0.128	0.1294
Na5895	589.592	{ 8 Y_3710	ppm	898.1	18.15	2.021	885.3	911
Na8183	818.326	{ 4 Y_3710	ppm	1009	7.703	0.7632	1004	1015
Ni2316	231.604	{4 In2306	ppm	0.0325	0.0003	0.9185	0.0323	0.0327
P_1782	178.284	{4 In2306	ppm	2.653	0.0038	0.1438	2.65	2.656
Pb2203	220.353	{4 In2306	ppm	-0.0018	0.0007	38.85	-0.0023	-0.0013
S_1820	182.034	{4 Y_2243	ppm	-125900	751.4	0.597	-125300	-126400
Sb2068	206.833	{4 Y_2243	ppm	-0.0049	0	0.267	-0.0049	-0.0049
Se1960	196.090	{4 Y_2243	ppm	0.0026	0.0023	89.14	0.0009	0.0042
Si2516	251.611	{1 Y_3710	ppm	19.35	0.1228	0.6347	19.26	19.44
Sn1899	189.989	{4 In2306	ppm	0.0007	0.0004	62.03	0.001	0.0004
Sr4215	421.552	{ 8 Y_3710	ppm	0.4614	0.0044	0.9519	0.4583	0.4646
Ti3349	334.904	{1 Y_3600	ppm	0.0019	0.0001	4.495	0.002	0.0018
Tl1908	190.856	{4 In2306	ppm	-0.0064	0.0006	9.518	-0.0068	-0.0059
V_2924	292.402	{1 Y_3600	ppm	0.014	0.0002	1.62	0.0142	0.0139
Zn2062	206.200	{4 In2306	ppm	0.041	0.0001	0.319	0.0409	0.0411

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	945.24	12.685	1.342	954.21	936.27
In2306	230.606	{4 Cts/S	14081	52.157	0.37039	14118	14045
Y_2243	224.306	{4 Cts/S	19559	76.644	0.39186	19613	19505
Y_3600	360.073	{ 9 Cts/S	173120	763.06	0.44077	173660	172580
Y_3710	371.030	{ 9 Cts/S	54960	567.61	1.0328	55361	54558

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60878-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:40:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0004	0.0004	95.1	-0.0001	-0.0007
Al3082	308.215 {1	In2306	ppm	0.0254	0.0002	0.9255	0.0256	0.0253
As1890	189.042 {4	Y_2243	ppm	0.0021	0.0003	14.58	0.0019	0.0023
B_2496	249.678 {1	Y_3710	ppm	0.1331	0.0013	0.9611	0.1322	0.134
Ba4554	455.403 {	Y_3710	ppm	0.3844	0.0001	0.0171	0.3844	0.3843
Be3130	313.042 {1	Y_3710	ppm	0	0	37060	0	0
Ca3158	315.887 {1	In2306	ppm	75.8	0.1375	0.1813	75.9	75.7
Ca3181	318.128 {1	In2306	ppm	69.02	0.3015	0.4368	69.24	68.81
Cd2288	228.802 {4	Y_2243	ppm	0.0004	0.0001	14.51	0.0003	0.0004
Co2286	228.616 {4	In2306	ppm	0.0002	0	14.13	0.0002	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0013	0.0003	22.6	0.0016	0.0011
Cu3247	324.754 {1	Y_3600	ppm	0.0149	0	0.1287	0.0149	0.0149
Fe2404	240.488 {1	In2306	ppm	0.0537	0.001	1.945	0.0544	0.0529
K_7664	766.490 {	Y_3710	ppm	6.581	0.0197	0.2998	6.595	6.567
K_7698	769.896 {	Y_3710	ppm	6.701	0.0155	0.2312	6.712	6.69
Li6707	670.784 {	Y_3710	ppm	0.0197	0.0002	0.9008	0.0196	0.0198
Mg2790	279.079 {1	Y_3710	ppm	8.087	0.0654	0.8087	8.133	8.04
Mn2576	257.610 {1	Y_3600	ppm	0.0025	0	1.307	0.0025	0.0025
Mn2576-2	257.610 {1	Y_3710	ppm	0.0027	0.0006	24.21	0.0031	0.0022
Mo2020	202.030 {4	Y_2243	ppm	0.3087	0.0026	0.8532	0.3106	0.3069
Na5895	589.592 {	Y_3710	ppm	62.79	0.2073	0.3301	62.93	62.64
Na8183	818.326 {	Y_3710	ppm	63.07	0.1993	0.316	63.21	62.93
Ni2316	231.604 {4	In2306	ppm	0.0068	0.0003	3.937	0.007	0.0067
P_1782	178.284 {4	In2306	ppm	2.024	0.0102	0.5055	2.031	2.016
Pb2203	220.353 {4	In2306	ppm	0.0007	0.0006	85.09	0.0011	0.0003
S_1820	182.034 {4	Y_2243	ppm	-2749	40.65	1.478	-2721	-2778
Sb2068	206.833 {4	Y_2243	ppm	-0.0039	0.0007	18.65	-0.0033	-0.0044
Se1960	196.090 {4	Y_2243	ppm	0.0025	0.0012	47.97	0.0017	0.0034
Si2516	251.611 {1	Y_3710	ppm	16.37	0.0563	0.3441	16.41	16.33
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0003	176	0	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0.5413	0.0005	0.0888	0.541	0.5417
Ti3349	334.904 {1	Y_3600	ppm	0.0016	0.0001	7.495	0.0017	0.0015
Tl1908	190.856 {4	In2306	ppm	-0.0065	0.0001	1.502	-0.0064	-0.0065
V_2924	292.402 {1	Y_3600	ppm	0.0038	0.0002	4.184	0.0039	0.0037
Zn2062	206.200 {4	In2306	ppm	0.0442	0.0002	0.3955	0.0444	0.0441

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1003.8	6.1223	0.60995	999.42	1008.1
In2306	230.606 {4	Cts/S	17233	19.236	0.11163	17219	17246
Y_2243	224.306 {4	Cts/S	21354	52.343	0.24512	21317	21391
Y_3600	360.073 {	Cts/S	194210	1071.3	0.55163	193450	194970
Y_3710	371.030 {	Cts/S	57599	472.89	0.821	57265	57934

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60878-d-2-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:42:48
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0009	0.0003	34.39	-0.0007	-0.0011
Al3082	308.215	{1 In2306	ppm	0.0268	0.007	26.28	0.0218	0.0318
As1890	189.042	{4 Y_2243	ppm	0.0014	0.0011	81.87	0.0021	0.0006
B_2496	249.678	{1 Y_3710	ppm	0.1366	0.0079	5.769	0.1311	0.1422
Ba4554	455.403	{ 7 Y_3710	ppm	0.3913	0.0134	3.414	0.3819	0.4008
Be3130	313.042	{1 Y_3710	ppm	-0.0001	0	0.1337	-0.0001	-0.0001
Ca3158	315.887	{1 In2306	ppm	77.63	2.2	2.834	76.07	79.18
Ca3181	318.128	{1 In2306	ppm	70.65	2.078	2.942	69.18	72.12
Cd2288	228.802	{4 Y_2243	ppm	0.0004	0	2.495	0.0004	0.0004
Co2286	228.616	{4 In2306	ppm	0.0002	0	12.61	0.0002	0.0002
Cr2677	267.716	{1 Y_3600	ppm	0.0015	0	2.253	0.0015	0.0015
Cu3247	324.754	{1 Y_3600	ppm	0.0153	0.0003	1.897	0.0155	0.0151
Fe2404	240.488	{1 In2306	ppm	0.0479	0.0049	10.14	0.0444	0.0513
K_7664	766.490	{ 4 Y_3710	ppm	6.662	0.2004	3.009	6.52	6.803
K_7698	769.896	{ 4 Y_3710	ppm	6.758	0.2312	3.421	6.594	6.921
Li6707	670.784	{ 8 Y_3710	ppm	0.0202	0.0004	2.069	0.0199	0.0205
Mg2790	279.079	{1 Y_3710	ppm	8.302	0.2063	2.484	8.156	8.448
Mn2576	257.610	{1 Y_3600	ppm	0.0026	0.0001	2.535	0.0027	0.0026
Mn2576-2	257.610	{1 Y_3710	ppm	0.0032	0	0.809	0.0032	0.0033
Mo2020	202.030	{4 Y_2243	ppm	0.3126	0.0018	0.5694	0.3139	0.3114
Na5895	589.592	{ 8 Y_3710	ppm	63.91	2.22	3.474	62.34	65.48
Na8183	818.326	{ 4 Y_3710	ppm	64.22	1.778	2.769	62.96	65.48
Ni2316	231.604	{4 In2306	ppm	0.0067	0.0001	1.628	0.0068	0.0066
P_1782	178.284	{4 In2306	ppm	2.053	0.0018	0.0882	2.054	2.051
Pb2203	220.353	{4 In2306	ppm	-0.0002	0.0009	566.8	-0.0008	0.0005
S_1820	182.034	{4 Y_2243	ppm	-2726	6.191	0.2271	-2731	-2722
Sb2068	206.833	{4 Y_2243	ppm	-0.0025	0	1.88	-0.0024	-0.0025
Se1960	196.090	{4 Y_2243	ppm	0.0032	0.0007	23.21	0.0037	0.0027
Si2516	251.611	{1 Y_3710	ppm	16.74	0.506	3.024	16.38	17.09
Sn1899	189.989	{4 In2306	ppm	0.0003	0.0005	171.1	-0.0001	0.0007
Sr4215	421.552	{ 8 Y_3710	ppm	0.552	0.019	3.449	0.5386	0.5655
Ti3349	334.904	{1 Y_3600	ppm	0.0017	0	1.913	0.0017	0.0017
Tl1908	190.856	{4 In2306	ppm	-0.0065	0.0001	0.7936	-0.0066	-0.0065
V_2924	292.402	{1 Y_3600	ppm	0.004	0.0004	8.718	0.0043	0.0038
Zn2062	206.200	{4 In2306	ppm	0.045	0.0002	0.3876	0.0451	0.0449

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	986.82	22.985	2.3292	1003.1	970.56
In2306	230.606	{4 Cts/S	17185	10.116	0.05887	17178	17192
Y_2243	224.306	{4 Cts/S	21324	48.508	0.22748	21289	21358
Y_3600	360.073	{ 9 Cts/S	190320	2513.1	1.3205	188540	192090
Y_3710	371.030	{ 9 Cts/S	56691	1291.2	2.2776	57604	55778

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60878-d-2-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:45:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.5478	0.0029	0.5308	0.5498	0.5457
Al3082	308.215	{1 In2306	ppm	10.89	0.7223	6.631	11.4	10.38
As1890	189.042	{4 Y_2243	ppm	1.056	0.0202	1.908	1.042	1.071
B_2496	249.678	{1 Y_3710	ppm	1.181	0.0682	5.777	1.229	1.133
Ba4554	455.403	{ 7 Y_3710	ppm	1.461	0.0808	5.533	1.518	1.404
Be3130	313.042	{1 Y_3710	ppm	0.5348	0.0302	5.654	0.5561	0.5134
Ca3158	315.887	{1 In2306	ppm	92.01	5.615	6.102	95.98	88.04
Ca3181	318.128	{1 In2306	ppm	83.52	5.109	6.117	87.13	79.91
Cd2288	228.802	{4 Y_2243	ppm	0.5053	0.0086	1.698	0.4993	0.5114
Co2286	228.616	{4 In2306	ppm	0.9795	0.0173	1.766	0.9673	0.9917
Cr2677	267.716	{1 Y_3600	ppm	1.003	0.0029	0.2842	1.005	1.001
Cu3247	324.754	{1 Y_3600	ppm	1.075	0.0045	0.4174	1.078	1.072
Fe2404	240.488	{1 In2306	ppm	10.63	0.6607	6.218	11.09	10.16
K_7664	766.490	{ 4 Y_3710	ppm	17.35	0.9662	5.57	18.03	16.66
K_7698	769.896	{ 4 Y_3710	ppm	17.8	0.9755	5.48	18.49	17.11
Li6707	670.784	{ 8 Y_3710	ppm	0.5678	0.0317	5.588	0.5902	0.5453
Mg2790	279.079	{1 Y_3710	ppm	18.61	1.08	5.8	19.38	17.85
Mn2576	257.610	{1 Y_3600	ppm	1.096	0.0046	0.4186	1.1	1.093
Mn2576-2	257.610	{1 Y_3710	ppm	1.133	0.0668	5.896	1.18	1.086
Mo2020	202.030	{4 Y_2243	ppm	1.362	0.0244	1.791	1.344	1.379
Na5895	589.592	{ 8 Y_3710	ppm	76.37	4.137	5.417	79.3	73.45
Na8183	818.326	{ 4 Y_3710	ppm	76.85	4.53	5.894	80.05	73.65
Ni2316	231.604	{4 In2306	ppm	1.017	0.0179	1.765	1.004	1.03
P_1782	178.284	{4 In2306	ppm	2.027	0.0358	1.768	2.001	2.052
Pb2203	220.353	{4 In2306	ppm	0.9866	0.017	1.724	0.9746	0.9986
S_1820	182.034	{4 Y_2243	ppm	-2634	45.74	1.737	-2601	-2666
Sb2068	206.833	{4 Y_2243	ppm	1.011	0.0158	1.559	0.9997	1.022
Se1960	196.090	{4 Y_2243	ppm	1.06	0.0184	1.733	1.047	1.073
Si2516	251.611	{1 Y_3710	ppm	18.25	1.128	6.181	19.05	17.45
Sn1899	189.989	{4 In2306	ppm	1.019	0.016	1.57	1.007	1.03
Sr4215	421.552	{ 8 Y_3710	ppm	1.128	0.0645	5.713	1.174	1.083
Ti3349	334.904	{1 Y_3600	ppm	1.012	0.0023	0.2291	1.013	1.01
Tl1908	190.856	{4 In2306	ppm	0.927	0.0416	4.486	0.9564	0.8976
V_2924	292.402	{1 Y_3600	ppm	1.005	0.0038	0.3807	1.007	1.002
Zn2062	206.200	{4 In2306	ppm	1.01	0.0175	1.734	0.9981	1.023

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	964.54	55.102	5.7128	925.58	1003.5
In2306	230.606	{4 Cts/S	17080	272.96	1.5982	17273	16887
Y_2243	224.306	{4 Cts/S	21893	342.95	1.5665	22135	21650
Y_3600	360.073	{ 9 Cts/S	193030	462.08	0.23939	192700	193360
Y_3710	371.030	{ 9 Cts/S	55858	2913.7	5.2163	53798	57918

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60878-d-2-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:47:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5462	0.0016	0.2934	0.5473	0.5451
Al3082	308.215 {1	In2306	ppm	10.48	0.0092	0.0879	10.48	10.49
As1890	189.042 {4	Y_2243	ppm	1.052	0.0035	0.3347	1.054	1.049
B_2496	249.678 {1	Y_3710	ppm	1.132	0.0031	0.2766	1.129	1.134
Ba4554	455.403 {	Y_3710	ppm	1.408	0.002	0.1446	1.406	1.409
Be3130	313.042 {1	Y_3710	ppm	0.5116	0.0015	0.2928	0.5106	0.5127
Ca3158	315.887 {1	In2306	ppm	88.16	0.4037	0.458	87.87	88.44
Ca3181	318.128 {1	In2306	ppm	80.23	0.3924	0.489	79.96	80.51
Cd2288	228.802 {4	Y_2243	ppm	0.5112	0.001	0.1927	0.5119	0.5105
Co2286	228.616 {4	In2306	ppm	0.9905	0.0023	0.2323	0.9921	0.9889
Cr2677	267.716 {1	Y_3600	ppm	1.002	0.0023	0.2297	1.004	1.001
Cu3247	324.754 {1	Y_3600	ppm	1.068	0.0058	0.5386	1.072	1.064
Fe2404	240.488 {1	In2306	ppm	10.23	0.0849	0.8299	10.17	10.29
K_7664	766.490 {	Y_3710	ppm	16.73	0.0866	0.5174	16.67	16.79
K_7698	769.896 {	Y_3710	ppm	17	0.019	0.112	17.02	16.99
Li6707	670.784 {	Y_3710	ppm	0.5468	0.0006	0.1186	0.5463	0.5473
Mg2790	279.079 {1	Y_3710	ppm	17.84	0.0887	0.4972	17.78	17.91
Mn2576	257.610 {1	Y_3600	ppm	1.097	0.0042	0.3869	1.1	1.094
Mn2576-2	257.610 {1	Y_3710	ppm	1.088	0.006	0.5552	1.084	1.092
Mo2020	202.030 {4	Y_2243	ppm	1.377	0.0014	0.1014	1.378	1.376
Na5895	589.592 {	Y_3710	ppm	73.41	0.0174	0.0237	73.42	73.39
Na8183	818.326 {	Y_3710	ppm	73.8	0.1944	0.2635	73.66	73.93
Ni2316	231.604 {4	In2306	ppm	1.032	0.0013	0.1226	1.033	1.031
P_1782	178.284 {4	In2306	ppm	2.039	0.0091	0.4442	2.045	2.032
Pb2203	220.353 {4	In2306	ppm	0.9972	0.0051	0.5073	1.001	0.9937
S_1820	182.034 {4	Y_2243	ppm	-2656	1.062	0.04	-2657	-2655
Sb2068	206.833 {4	Y_2243	ppm	1.025	0.0047	0.4577	1.028	1.022
Se1960	196.090 {4	Y_2243	ppm	1.07	0.0012	0.1084	1.071	1.069
Si2516	251.611 {1	Y_3710	ppm	17.5	0.0317	0.1812	17.47	17.52
Sn1899	189.989 {4	In2306	ppm	1.028	0.0022	0.2107	1.03	1.027
Sr4215	421.552 {	Y_3710	ppm	1.083	0.0017	0.1583	1.082	1.084
Ti3349	334.904 {1	Y_3600	ppm	1.004	0.003	0.3017	1.006	1.002
Tl1908	190.856 {4	In2306	ppm	1.017	0.0333	3.273	1.041	0.9938
V_2924	292.402 {1	Y_3600	ppm	0.9991	0.0043	0.4277	1.002	0.9961
Zn2062	206.200 {4	In2306	ppm	1.022	0.0017	0.163	1.024	1.021

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	983.8	0.16615	0.01689	983.68	983.92
In2306	230.606 {4	Cts/S	16831	17.27	0.10261	16819	16844
Y_2243	224.306 {4	Cts/S	21561	5.4587	0.02532	21557	21565
Y_3600	360.073 {	Cts/S	192470	26.388	0.01371	192450	192480
Y_3710	371.030 {	Cts/S	57211	14.174	0.02478	57201	57221

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:49:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2611	0.0018	0.6848	0.2624	0.2599
Al3082	308.215 {1	In2306	ppm	2.554	0.1815	7.109	2.682	2.425
As1890	189.042 {4	Y_2243	ppm	0.5143	0.0046	0.9	0.5176	0.511
B_2496	249.678 {1	Y_3710	ppm	0.5041	0.0413	8.2	0.5333	0.4748
Ba4554	455.403 {	Y_3710	ppm	0.5108	0.0345	6.746	0.5351	0.4864
Be3130	313.042 {1	Y_3710	ppm	0.5144	0.0351	6.817	0.5392	0.4896
Ca3158	315.887 {1	In2306	ppm	13.82	0.9687	7.009	14.51	13.14
Ca3181	318.128 {1	In2306	ppm	12.58	0.9321	7.412	13.24	11.92
Cd2288	228.802 {4	Y_2243	ppm	0.5019	0.0059	1.178	0.5061	0.4977
Co2286	228.616 {4	In2306	ppm	0.476	0.0059	1.234	0.4802	0.4719
Cr2677	267.716 {1	Y_3600	ppm	0.5011	0.0035	0.6901	0.5036	0.4987
Cu3247	324.754 {1	Y_3600	ppm	0.5117	0.004	0.7827	0.5146	0.5089
Fe2404	240.488 {1	In2306	ppm	2.55	0.1809	7.095	2.678	2.422
K_7664	766.490 {	Y_3710	ppm	12.8	0.8539	6.671	13.4	12.2
K_7698	769.896 {	Y_3710	ppm	13.05	0.8519	6.53	13.65	12.44
Li6707	670.784 {	Y_3710	ppm	0.5273	0.0307	5.823	0.549	0.5056
Mg2790	279.079 {1	Y_3710	ppm	4.974	0.3626	7.291	5.231	4.718
Mn2576	257.610 {1	Y_3600	ppm	0.5476	0.0028	0.5174	0.5497	0.5456
Mn2576-2	257.610 {1	Y_3710	ppm	0.5654	0.0377	6.668	0.5921	0.5388
Mo2020	202.030 {4	Y_2243	ppm	0.5408	0.0067	1.234	0.5455	0.536
Na5895	589.592 {	Y_3710	ppm	13.15	0.8306	6.319	13.73	12.56
Na8183	818.326 {	Y_3710	ppm	13.07	0.6232	4.769	13.51	12.63
Ni2316	231.604 {4	In2306	ppm	0.4955	0.0057	1.155	0.4996	0.4915
P_1782	178.284 {4	In2306	ppm	0.4874	0.0061	1.243	0.4917	0.4832
Pb2203	220.353 {4	In2306	ppm	0.4887	0.0071	1.445	0.4937	0.4837
S_1820	182.034 {4	Y_2243	ppm	-857.2	9.011	1.051	-863.6	-850.8
Sb2068	206.833 {4	Y_2243	ppm	0.5091	0.0068	1.345	0.514	0.5043
Se1960	196.090 {4	Y_2243	ppm	0.5235	0.0036	0.6915	0.5261	0.521
Si2516	251.611 {1	Y_3710	ppm	0.9548	0.0652	6.824	1.001	0.9087
Sn1899	189.989 {4	In2306	ppm	0.4985	0.007	1.409	0.5034	0.4935
Sr4215	421.552 {	Y_3710	ppm	0.2688	0.017	6.338	0.2809	0.2568
Ti3349	334.904 {1	Y_3600	ppm	0.4902	0.0025	0.5053	0.492	0.4885
Tl1908	190.856 {4	In2306	ppm	0.5466	0.0044	0.809	0.5435	0.5497
V_2924	292.402 {1	Y_3600	ppm	0.49	0.0016	0.3181	0.4911	0.4889
Zn2062	206.200 {4	In2306	ppm	0.4676	0.0056	1.201	0.4716	0.4637

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	975.69	59.346	6.0824	933.73	1017.7
In2306	230.606 {4	Cts/S	18331	145.89	0.79586	18228	18434
Y_2243	224.306 {4	Cts/S	22034	183.61	0.83329	21904	22164
Y_3600	360.073 {	Cts/S	199040	739.52	0.37155	198510	199560
Y_3710	371.030 {	Cts/S	54861	3307	6.0279	52522	57199

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:51:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0053	0.0007	14	0.0058	0.0047
Al3082	308.215 {1	In2306	ppm	0.0954	0.0057	5.964	0.0914	0.0994
As1890	189.042 {4	Y_2243	ppm	0.0106	0.0007	6.433	0.0101	0.0111
B_2496	249.678 {1	Y_3710	ppm	0.0058	0.0037	63.97	0.0084	0.0032
Ba4554	455.403 {	Y_3710	ppm	0.01	0.0001	0.5154	0.0099	0.01
Be3130	313.042 {1	Y_3710	ppm	0.0049	0	0.4452	0.0049	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1288	0.0066	5.1	0.1335	0.1242
Ca3181	318.128 {1	In2306	ppm	0.093	0.0018	1.884	0.0942	0.0917
Cd2288	228.802 {4	Y_2243	ppm	0.0056	0.0005	9.079	0.0052	0.0059
Co2286	228.616 {4	In2306	ppm	0.0097	0.0004	4.031	0.0095	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0106	0.0003	2.644	0.0108	0.0104
Cu3247	324.754 {1	Y_3600	ppm	0.0154	0.0005	3.301	0.0151	0.0158
Fe2404	240.488 {1	In2306	ppm	0.0992	0.0021	2.124	0.1007	0.0977
K_7664	766.490 {	Y_3710	ppm	0.658	0.0007	0.1127	0.6575	0.6585
K_7698	769.896 {	Y_3710	ppm	0.6499	0.0249	3.828	0.6675	0.6323
Li6707	670.784 {	Y_3710	ppm	0.0111	0	0.3599	0.0111	0.011
Mg2790	279.079 {1	Y_3710	ppm	0.0869	0.0018	2.067	0.0856	0.0882
Mn2576	257.610 {1	Y_3600	ppm	0.0113	0.0001	0.9528	0.0112	0.0114
Mn2576-2	257.610 {1	Y_3710	ppm	0.011	0.0008	7.35	0.0116	0.0104
Mo2020	202.030 {4	Y_2243	ppm	0.0135	0.0009	6.394	0.0128	0.0141
Na5895	589.592 {	Y_3710	ppm	0.685	0.0075	1.089	0.6903	0.6797
Na8183	818.326 {	Y_3710	ppm	0.7468	0.0157	2.106	0.7357	0.7579
Ni2316	231.604 {4	In2306	ppm	0.0104	0.0005	4.709	0.0101	0.0107
P_1782	178.284 {4	In2306	ppm	0.0105	0.0001	0.5258	0.0105	0.0105
Pb2203	220.353 {4	In2306	ppm	0.0097	0.0006	6.674	0.0093	0.0102
S_1820	182.034 {4	Y_2243	ppm	5.566	0.4733	8.503	5.901	5.231
Sb2068	206.833 {4	Y_2243	ppm	0.0124	0.0027	21.47	0.0105	0.0143
Se1960	196.090 {4	Y_2243	ppm	0.0117	0.0009	7.95	0.0124	0.0111
Si2516	251.611 {1	Y_3710	ppm	0.0153	0.0041	26.97	0.0124	0.0183
Sn1899	189.989 {4	In2306	ppm	0.0106	0.0006	6.11	0.0102	0.0111
Sr4215	421.552 {	Y_3710	ppm	0.0053	0.0001	1.52	0.0054	0.0053
Ti3349	334.904 {1	Y_3600	ppm	0.0104	0	0.1504	0.0104	0.0104
Tl1908	190.856 {4	In2306	ppm	0.0825	0.0339	41.02	0.0586	0.1065
V_2924	292.402 {1	Y_3600	ppm	0.0101	0.0002	2.289	0.0103	0.0099
Zn2062	206.200 {4	In2306	ppm	0.0097	0.0003	2.869	0.0095	0.0099

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1029.5	0.38821	0.03771	1029.2	1029.8
In2306	230.606 {4	Cts/S	19529	4.8135	0.02465	19525	19532
Y_2243	224.306 {4	Cts/S	22507	11.586	0.05148	22515	22498
Y_3600	360.073 {	Cts/S	201710	916.74	0.45449	202360	201060
Y_3710	371.030 {	Cts/S	57605	66.384	0.11524	57652	57558

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:53:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0001	0.0005	510.5	-0.0005	0.0003
Al3082	308.215 {1	In2306	ppm	-0.005	0.0044	88.31	-0.0081	-0.0019
As1890	189.042 {4	Y_2243	ppm	-0.0009	0.0002	25.18	-0.0011	-0.0007
B_2496	249.678 {1	Y_3710	ppm	-0.0042	0.0003	7.434	-0.004	-0.0045
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0.0001	80.51	-0.0001	-0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	265.7	0	0
Ca3158	315.887 {1	In2306	ppm	0.0037	0.0015	41.04	0.0047	0.0026
Ca3181	318.128 {1	In2306	ppm	-0.0262	0.0147	56.06	-0.0158	-0.0365
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0001	30.02	0.0001	0.0002
Co2286	228.616 {4	In2306	ppm	0	0	114.8	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0	0.0001	475.1	0	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0047	0.0002	3.325	0.0048	0.0046
Fe2404	240.488 {1	In2306	ppm	0.0011	0.002	173.2	0.0026	-0.0003
K_7664	766.490 {	Y_3710	ppm	0.0285	0.0099	34.86	0.0355	0.0215
K_7698	769.896 {	Y_3710	ppm	-0.0074	0.0406	547.1	0.0213	-0.0362
Li6707	670.784 {	Y_3710	ppm	-0.0009	0.0001	6.07	-0.0009	-0.001
Mg2790	279.079 {1	Y_3710	ppm	-0.0125	0.0111	88.81	-0.0046	-0.0203
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0	29.8	-0.0001	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	0.0002	0.0001	31.78	0.0001	0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0005	0.0001	26.4	0.0004	0.0006
Na5895	589.592 {	Y_3710	ppm	0.0672	0.0011	1.638	0.068	0.0665
Na8183	818.326 {	Y_3710	ppm	0.1851	0.0212	11.43	0.1702	0.2001
Ni2316	231.604 {4	In2306	ppm	0	0.0002	1254	-0.0001	0.0001
P_1782	178.284 {4	In2306	ppm	0.0012	0.0001	5.553	0.0012	0.0011
Pb2203	220.353 {4	In2306	ppm	0.0007	0	1.26	0.0007	0.0007
S_1820	182.034 {4	Y_2243	ppm	7.407	0.1953	2.637	7.269	7.545
Sb2068	206.833 {4	Y_2243	ppm	-0.0027	0.0002	6.68	-0.0028	-0.0026
Se1960	196.090 {4	Y_2243	ppm	-0.0012	0.001	85.68	-0.0019	-0.0005
Si2516	251.611 {1	Y_3710	ppm	0.0014	0.0044	324.5	0.0045	-0.0018
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0001	80.05	-0.0001	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0	0	280.8	0	0
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0002	307.5	0.0001	-0.0002
Tl1908	190.856 {4	In2306	ppm	0.0211	0.0102	48.48	0.0139	0.0284
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0001	74.25	0.0001	0.0003
Zn2062	206.200 {4	In2306	ppm	0.0001	0	29.47	0.0001	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1032.2	2.1406	0.20738	1030.7	1033.7
In2306	230.606 {4	Cts/S	19706	92.422	0.46901	19641	19771
Y_2243	224.306 {4	Cts/S	22562	108.86	0.48249	22485	22639
Y_3600	360.073 {	Cts/S	204510	624.54	0.30539	204950	204060
Y_3710	371.030 {	Cts/S	57734	39.564	0.06853	57706	57762

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60843-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:56:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0001	59	-0.0003	-0.0001
Al3082	308.215 {1	In2306	ppm	-0.0011	0.0097	911.6	0.0058	-0.0079
As1890	189.042 {4	Y_2243	ppm	-0.0013	0.0015	112.4	-0.0023	-0.0003
B_2496	249.678 {1	Y_3710	ppm	-0.0041	0.0017	42.63	-0.0028	-0.0053
Ba4554	455.403 {	Y_3710	ppm	0.0011	0.0002	19.43	0.0013	0.001
Be3130	313.042 {1	Y_3710	ppm	0	0	117.1	0	0
Ca3158	315.887 {1	In2306	ppm	1.169	0.0587	5.016	1.211	1.128
Ca3181	318.128 {1	In2306	ppm	1.048	0.0911	8.699	1.112	0.9831
Cd2288	228.802 {4	Y_2243	ppm	0.0001	0	2.166	0.0001	0.0001
Co2286	228.616 {4	In2306	ppm	0	0.0001	4197	0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0002	0.0001	35.26	0.0002	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0052	0.0004	6.723	0.005	0.0055
Fe2404	240.488 {1	In2306	ppm	0.0645	0.004	6.191	0.0674	0.0617
K_7664	766.490 {	Y_3710	ppm	7.651	0.3611	4.719	7.906	7.396
K_7698	769.896 {	Y_3710	ppm	7.74	0.3994	5.161	8.022	7.457
Li6707	670.784 {	Y_3710	ppm	-0.0006	0.0009	142.1	0	-0.0012
Mg2790	279.079 {1	Y_3710	ppm	0.0889	0.0006	0.651	0.0893	0.0885
Mn2576	257.610 {1	Y_3600	ppm	0.0023	0.0001	3.185	0.0023	0.0022
Mn2576-2	257.610 {1	Y_3710	ppm	0.0019	0.0003	13.95	0.0021	0.0017
Mo2020	202.030 {4	Y_2243	ppm	0.0001	0.0001	79.37	0.0002	0.0001
Na5895	589.592 {	Y_3710	ppm	36.41	1.724	4.736	37.63	35.19
Na8183	818.326 {	Y_3710	ppm	37.17	1.914	5.149	38.52	35.81
Ni2316	231.604 {4	In2306	ppm	0.0002	0	14.1	0.0002	0.0002
P_1782	178.284 {4	In2306	ppm	0.1388	0.0004	0.3203	0.1384	0.1391
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0013	254.5	-0.0004	0.0014
S_1820	182.034 {4	Y_2243	ppm	-3286	19.43	0.5912	-3272	-3299
Sb2068	206.833 {4	Y_2243	ppm	-0.0017	0.0003	15.31	-0.0019	-0.0016
Se1960	196.090 {4	Y_2243	ppm	0.0009	0.0007	72.19	0.0005	0.0014
Si2516	251.611 {1	Y_3710	ppm	0.0534	0.0141	26.47	0.0634	0.0434
Sn1899	189.989 {4	In2306	ppm	-0.0002	0	19.4	-0.0002	-0.0003
Sr4215	421.552 {	Y_3710	ppm	0.0067	0.0003	4.595	0.0069	0.0065
Ti3349	334.904 {1	Y_3600	ppm	0	0.0001	2176	0.0001	-0.0001
Tl1908	190.856 {4	In2306	ppm	0.0029	0.0036	122.3	0.0004	0.0054
V_2924	292.402 {1	Y_3600	ppm	0	0.0001	1058	0.0001	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.0083	0.0001	0.8502	0.0082	0.0083

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1036.7	40.334	3.8908	1008.1	1065.2
In2306	230.606 {4	Cts/S	18296	125.77	0.68738	18385	18208
Y_2243	224.306 {4	Cts/S	21801	133.48	0.61223	21896	21707
Y_3600	360.073 {	Cts/S	197510	3010.6	1.5242	195380	199640
Y_3710	371.030 {	Cts/S	58209	2209.1	3.795	56647	59772

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60028-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 9:58:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0002	59.41	-0.0002	-0.0004
Al3082	308.215 {1	In2306	ppm	0.1581	0.0112	7.1	0.166	0.1501
As1890	189.042 {4	Y_2243	ppm	0.0097	0.0011	11.67	0.0089	0.0105
B_2496	249.678 {1	Y_3710	ppm	0.6696	0.0072	1.081	0.6747	0.6645
Ba4554	455.403 {	Y_3710	ppm	0.1252	0.0007	0.583	0.1257	0.1247
Be3130	313.042 {1	Y_3710	ppm	0	0	64.13	0	0
Ca3158	315.887 {1	In2306	ppm	69.69	0.2107	0.3024	69.54	69.84
Ca3181	318.128 {1	In2306	ppm	62.82	0.3027	0.4818	62.6	63.03
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	12.22	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	-0.0001	0.0002	120.9	0	-0.0003
Cr2677	267.716 {1	Y_3600	ppm	0.0056	0.0008	13.69	0.0051	0.0061
Cu3247	324.754 {1	Y_3600	ppm	0.0082	0.0001	0.9661	0.0082	0.0081
Fe2404	240.488 {1	In2306	ppm	0.1164	0.0011	0.9327	0.1157	0.1172
K_7664	766.490 {	Y_3710	ppm	11.62	0.0599	0.5155	11.66	11.58
K_7698	769.896 {	Y_3710	ppm	11.85	0.0687	0.5794	11.9	11.8
Li6707	670.784 {	Y_3710	ppm	0.0183	0.0005	2.751	0.0187	0.0179
Mg2790	279.079 {1	Y_3710	ppm	6.49	0.0293	0.4514	6.47	6.511
Mn2576	257.610 {1	Y_3600	ppm	0.077	0.0051	6.662	0.0734	0.0806
Mn2576-2	257.610 {1	Y_3710	ppm	0.0725	0.0008	1.075	0.0719	0.073
Mo2020	202.030 {4	Y_2243	ppm	0.0098	0.0003	2.914	0.0096	0.01
Na5895	589.592 {	Y_3710	ppm	748.9	6.11	0.8159	744.6	753.2
Na8183	818.326 {	Y_3710	ppm	818.1	6.124	0.7485	822.5	813.8
Ni2316	231.604 {4	In2306	ppm	0.0072	0.0002	3.006	0.0074	0.0071
P_1782	178.284 {4	In2306	ppm	1.078	0.0005	0.0508	1.079	1.078
Pb2203	220.353 {4	In2306	ppm	-0.0004	0.0002	50.61	-0.0006	-0.0003
S_1820	182.034 {4	Y_2243	ppm	-291300	174.6	0.06	-291100	-291400
Sb2068	206.833 {4	Y_2243	ppm	-0.0023	0.0017	71.5	-0.0035	-0.0011
Se1960	196.090 {4	Y_2243	ppm	0.0123	0.0005	3.988	0.0126	0.0119
Si2516	251.611 {1	Y_3710	ppm	7.587	0.0396	0.522	7.615	7.559
Sn1899	189.989 {4	In2306	ppm	-0.0002	0.0002	150	-0.0003	0
Sr4215	421.552 {	Y_3710	ppm	0.6022	0.0057	0.9538	0.6062	0.5981
Ti3349	334.904 {1	Y_3600	ppm	0.0003	0.0007	201.8	0.0008	-0.0001
Tl1908	190.856 {4	In2306	ppm	-0.0018	0.0012	69.37	-0.0026	-0.0009
V_2924	292.402 {1	Y_3600	ppm	0.0959	0.007	7.352	0.0909	0.1009
Zn2062	206.200 {4	In2306	ppm	0.024	0.0001	0.3661	0.0241	0.024

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	957.47	7.0197	0.73315	962.43	952.51
In2306	230.606 {4	Cts/S	14563	18.514	0.12713	14576	14550
Y_2243	224.306 {4	Cts/S	19736	27.843	0.14108	19756	19716
Y_3600	360.073 {	Cts/S	170540	9537.9	5.5929	177280	163790
Y_3710	371.030 {	Cts/S	55125	347.11	0.62968	55370	54879

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60819-a-13-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:01:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.0003	211.8	-0.0003	0.0001
Al3082	308.215	{1 In2306	ppm	0.1531	0.0027	1.789	0.155	0.1512
As1890	189.042	{4 Y_2243	ppm	0.0001	0.0009	1624	-0.0006	0.0007
B_2496	249.678	{1 Y_3710	ppm	-0.0031	0.0008	26.85	-0.0025	-0.0037
Ba4554	455.403	{ ï Y_3710	ppm	0.0125	0	0.3115	0.0125	0.0125
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	36.55	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	8.904	0.0655	0.7351	8.95	8.858
Ca3181	318.128	{1 In2306	ppm	8.04	0.0114	0.1415	8.032	8.048
Cd2288	228.802	{4 Y_2243	ppm	0.0007	0	2.653	0.0007	0.0007
Co2286	228.616	{4 In2306	ppm	0.0006	0	4.784	0.0006	0.0006
Cr2677	267.716	{1 Y_3600	ppm	0.0027	0.0002	6.125	0.0026	0.0028
Cu3247	324.754	{1 Y_3600	ppm	0.011	0.0001	1.141	0.0109	0.0111
Fe2404	240.488	{1 In2306	ppm	0.1886	0.0027	1.431	0.1905	0.1867
K_7664	766.490	{ ⁄ Y_3710	ppm	0.0861	0.0021	2.486	0.0846	0.0876
K_7698	769.896	{ ⁄ Y_3710	ppm	0.1144	0.021	18.36	0.0995	0.1292
Li6707	670.784	{ ß Y_3710	ppm	0	0.0002	813.1	-0.0001	0.0001
Mg2790	279.079	{1 Y_3710	ppm	0.0746	0.0254	34.04	0.0926	0.0567
Mn2576	257.610	{1 Y_3600	ppm	0.0635	0.0003	0.4132	0.0636	0.0633
Mn2576-2	257.610	{1 Y_3710	ppm	0.0623	0.0006	0.9628	0.0627	0.0619
Mo2020	202.030	{4 Y_2243	ppm	0.0002	0.0001	28.09	0.0002	0.0002
Na5895	589.592	{ ß Y_3710	ppm	0.3119	0.0491	15.74	0.3466	0.2772
Na8183	818.326	{ ⁄ Y_3710	ppm	0.3304	0.0488	14.78	0.3649	0.2958
Ni2316	231.604	{4 In2306	ppm	0.0037	0.0002	5.621	0.0036	0.0038
P_1782	178.284	{4 In2306	ppm	0.0342	0.0019	5.529	0.0329	0.0355
Pb2203	220.353	{4 In2306	ppm	0.5203	0.0019	0.3608	0.5216	0.5189
S_1820	182.034	{4 Y_2243	ppm	-156.7	197.9	126.3	-16.76	-296.6
Sb2068	206.833	{4 Y_2243	ppm	-0.0027	0.0007	26.17	-0.0022	-0.0032
Se1960	196.090	{4 Y_2243	ppm	0.001	0.0017	165.2	-0.0002	0.0022
Si2516	251.611	{1 Y_3710	ppm	0.2677	0.0131	4.881	0.2585	0.277
Sn1899	189.989	{4 In2306	ppm	0	0	113.2	0	0
Sr4215	421.552	{ ß Y_3710	ppm	0.0252	0.0003	0.9969	0.0253	0.025
Ti3349	334.904	{1 Y_3600	ppm	0.001	0.0001	6.914	0.001	0.0009
Tl1908	190.856	{4 In2306	ppm	-0.0041	0.0002	4.429	-0.0043	-0.004
V_2924	292.402	{1 Y_3600	ppm	0.0022	0.0002	10.79	0.0024	0.0021
Zn2062	206.200	{4 In2306	ppm	0.0077	0	0.1355	0.0076	0.0077

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1029.7	1.409	0.13684	1028.7	1030.7
In2306	230.606	{4 Cts/S	19361	28.301	0.14618	19381	19341
Y_2243	224.306	{4 Cts/S	22301	0.09663	0.00043	22302	22301
Y_3600	360.073	{ ¢ Cts/S	204910	205.21	0.10015	204760	205050
Y_3710	371.030	{ ¢ Cts/S	57900	23.115	0.03992	57916	57883

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60827-e-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:03:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0003	0.0001	18.48	-0.0003	-0.0004
Al3082	308.215	{1 In2306	ppm	0.2044	0.001	0.4926	0.2052	0.2037
As1890	189.042	{4 Y_2243	ppm	0.0014	0.0001	4.069	0.0015	0.0014
B_2496	249.678	{1 Y_3710	ppm	0.0502	0.0001	0.1973	0.0501	0.0502
Ba4554	455.403	{ ï Y_3710	ppm	0.0784	0.0006	0.7516	0.078	0.0788
Be3130	313.042	{1 Y_3710	ppm	0	0	31.27	0	0.0001
Ca3158	315.887	{1 In2306	ppm	31.23	0.1132	0.3627	31.31	31.15
Ca3181	318.128	{1 In2306	ppm	28.23	0.1057	0.3743	28.3	28.15
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	17.56	0.0003	0.0002
Co2286	228.616	{4 In2306	ppm	0.0001	0	12.8	0.0001	0.0002
Cr2677	267.716	{1 Y_3600	ppm	0.0011	0.0004	34.81	0.0013	0.0008
Cu3247	324.754	{1 Y_3600	ppm	0.0068	0.0003	5.109	0.0071	0.0066
Fe2404	240.488	{1 In2306	ppm	0.3357	0.0022	0.6573	0.3373	0.3342
K_7664	766.490	{ ¿ Y_3710	ppm	3.703	0.0507	1.369	3.667	3.739
K_7698	769.896	{ ¿ Y_3710	ppm	3.755	0.0617	1.643	3.711	3.799
Li6707	670.784	{ ß Y_3710	ppm	0.003	0.0001	3.486	0.003	0.0031
Mg2790	279.079	{1 Y_3710	ppm	3.189	0.0175	0.5501	3.177	3.201
Mn2576	257.610	{1 Y_3600	ppm	0.0195	0	0.1465	0.0195	0.0195
Mn2576-2	257.610	{1 Y_3710	ppm	0.0188	0.0004	1.909	0.0185	0.019
Mo2020	202.030	{4 Y_2243	ppm	0.0301	0.0003	0.8374	0.0299	0.0303
Na5895	589.592	{ ß Y_3710	ppm	20.68	0.1231	0.5954	20.59	20.76
Na8183	818.326	{ ¿ Y_3710	ppm	20.55	0.0468	0.2279	20.51	20.58
Ni2316	231.604	{4 In2306	ppm	0.0029	0.0002	6.255	0.0028	0.003
P_1782	178.284	{4 In2306	ppm	0.107	0.0003	0.3123	0.1068	0.1072
Pb2203	220.353	{4 In2306	ppm	0.0013	0.001	75.78	0.0006	0.0021
S_1820	182.034	{4 Y_2243	ppm	-3522	0.8369	0.0238	-3523	-3522
Sb2068	206.833	{4 Y_2243	ppm	-0.0007	0.0015	211.9	0.0003	-0.0017
Se1960	196.090	{4 Y_2243	ppm	0.0009	0.0016	173.3	0.002	-0.0002
Si2516	251.611	{1 Y_3710	ppm	1.905	0.0129	0.6789	1.896	1.914
Sn1899	189.989	{4 In2306	ppm	-0.0001	0.0005	444.7	0.0002	-0.0004
Sr4215	421.552	{ ß Y_3710	ppm	0.1562	0.0014	0.9125	0.1552	0.1573
Ti3349	334.904	{1 Y_3600	ppm	0.0043	0.0004	9.983	0.0046	0.004
Tl1908	190.856	{4 In2306	ppm	-0.0053	0.0001	1.503	-0.0052	-0.0053
V_2924	292.402	{1 Y_3600	ppm	0.0029	0.0002	5.951	0.0028	0.003
Zn2062	206.200	{4 In2306	ppm	0.0173	0.0001	0.3362	0.0174	0.0173

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1022.1	0.50794	0.04969	1021.8	1022.5
In2306	230.606	{4 Cts/S	18206	11.044	0.06066	18214	18198
Y_2243	224.306	{4 Cts/S	21659	11.832	0.05463	21667	21650
Y_3600	360.073	{ ¢ Cts/S	197020	139.68	0.0709	196920	197120
Y_3710	371.030	{ ¢ Cts/S	57783	96.553	0.1671	57851	57715

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60827-f-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:06:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.0006	1057	-0.0005	0.0004
Al3082	308.215	{1 In2306	ppm	0.0114	0.0112	97.68	0.0193	0.0035
As1890	189.042	{4 Y_2243	ppm	0.0018	0.0011	64.03	0.001	0.0026
B_2496	249.678	{1 Y_3710	ppm	0.0407	0	0.1199	0.0407	0.0407
Ba4554	455.403	{ 7 Y_3710	ppm	0.0597	0.0011	1.907	0.0605	0.0589
Be3130	313.042	{1 Y_3710	ppm	0	0	53.57	0	0
Ca3158	315.887	{1 In2306	ppm	24.4	0.5652	2.317	24.8	24
Ca3181	318.128	{1 In2306	ppm	22.07	0.4784	2.168	22.41	21.73
Cd2288	228.802	{4 Y_2243	ppm	0.0003	0.0001	21.56	0.0003	0.0002
Co2286	228.616	{4 In2306	ppm	0.0001	0	14.45	0.0001	0
Cr2677	267.716	{1 Y_3600	ppm	0.0005	0.0001	15.71	0.0005	0.0006
Cu3247	324.754	{1 Y_3600	ppm	0.0071	0.0001	1.999	0.0072	0.007
Fe2404	240.488	{1 In2306	ppm	0.1159	0.0006	0.5273	0.1163	0.1154
K_7664	766.490	{ 4 Y_3710	ppm	2.886	0.0523	1.812	2.923	2.849
K_7698	769.896	{ 4 Y_3710	ppm	2.964	0.0268	0.904	2.983	2.945
Li6707	670.784	{ 8 Y_3710	ppm	0.0022	0.0004	16.97	0.0024	0.0019
Mg2790	279.079	{1 Y_3710	ppm	2.477	0.0397	1.603	2.505	2.449
Mn2576	257.610	{1 Y_3600	ppm	0.0042	0.0002	4.87	0.0043	0.004
Mn2576-2	257.610	{1 Y_3710	ppm	0.0036	0.0001	3.121	0.0035	0.0037
Mo2020	202.030	{4 Y_2243	ppm	0.025	0.0002	0.8547	0.0252	0.0249
Na5895	589.592	{ 8 Y_3710	ppm	16.37	0.2897	1.769	16.58	16.17
Na8183	818.326	{ 4 Y_3710	ppm	16.3	0.2954	1.813	16.51	16.09
Ni2316	231.604	{4 In2306	ppm	0.0019	0	0.5932	0.0019	0.0019
P_1782	178.284	{4 In2306	ppm	0.0722	0.0015	2.07	0.0733	0.0712
Pb2203	220.353	{4 In2306	ppm	0.0015	0.0001	4.314	0.0014	0.0015
S_1820	182.034	{4 Y_2243	ppm	-2784	2.1	0.0754	-2782	-2785
Sb2068	206.833	{4 Y_2243	ppm	-0.0014	0.0005	38.44	-0.001	-0.0018
Se1960	196.090	{4 Y_2243	ppm	0.0012	0.0008	69.7	0.0006	0.0017
Si2516	251.611	{1 Y_3710	ppm	1.329	0.0197	1.48	1.343	1.315
Sn1899	189.989	{4 In2306	ppm	-0.0003	0.0001	41.44	-0.0004	-0.0002
Sr4215	421.552	{ 8 Y_3710	ppm	0.1231	0.0021	1.707	0.1246	0.1217
Ti3349	334.904	{1 Y_3600	ppm	0.0016	0.0001	7.047	0.0017	0.0015
Tl1908	190.856	{4 In2306	ppm	-0.0064	0.0006	8.663	-0.0068	-0.006
V_2924	292.402	{1 Y_3600	ppm	0.0018	0.0004	19.96	0.002	0.0015
Zn2062	206.200	{4 In2306	ppm	0.0205	0	0.0902	0.0205	0.0205

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1025.4	24.709	2.4097	1007.9	1042.9
In2306	230.606	{4 Cts/S	18367	23.027	0.12537	18351	18384
Y_2243	224.306	{4 Cts/S	21702	9.7397	0.04488	21695	21709
Y_3600	360.073	{ 9 Cts/S	196630	503.82	0.25623	196270	196980
Y_3710	371.030	{ 9 Cts/S	57881	1074.2	1.8559	57121	58640

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60849-e-5-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:08:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0002	0.0003	115.2	0	-0.0004
Al3082	308.215	{1 In2306	ppm	1.008	0.0073	0.7247	1.002	1.013
As1890	189.042	{4 Y_2243	ppm	0.0012	0.0004	34.4	0.0014	0.0009
B_2496	249.678	{1 Y_3710	ppm	0.1122	0.0024	2.152	0.114	0.1105
Ba4554	455.403	{ 7 Y_3710	ppm	0.0566	0.0001	0.1097	0.0566	0.0567
Be3130	313.042	{1 Y_3710	ppm	0	0	10.1	0	0
Ca3158	315.887	{1 In2306	ppm	220.8	0.073	0.0331	220.9	220.8
Ca3181	318.128	{1 In2306	ppm	197.6	0.042	0.0212	197.6	197.5
Cd2288	228.802	{4 Y_2243	ppm	0.0002	0	16.9	0.0003	0.0002
Co2286	228.616	{4 In2306	ppm	0.0007	0	3.687	0.0006	0.0007
Cr2677	267.716	{1 Y_3600	ppm	0.0021	0.0001	3.196	0.0022	0.0021
Cu3247	324.754	{1 Y_3600	ppm	0.009	0.0003	2.958	0.0091	0.0088
Fe2404	240.488	{1 In2306	ppm	0.1149	0.0028	2.431	0.1129	0.1169
K_7664	766.490	{ 4 Y_3710	ppm	12.65	0.0331	0.2617	12.63	12.68
K_7698	769.896	{ 4 Y_3710	ppm	13.02	0.1069	0.8213	12.94	13.09
Li6707	670.784	{ 8 Y_3710	ppm	0.013	0.0005	4.21	0.0126	0.0134
Mg2790	279.079	{1 Y_3710	ppm	12.09	0.0357	0.2957	12.11	12.06
Mn2576	257.610	{1 Y_3600	ppm	0.0674	0.0016	2.34	0.0685	0.0663
Mn2576-2	257.610	{1 Y_3710	ppm	0.0652	0.0007	1.13	0.0647	0.0657
Mo2020	202.030	{4 Y_2243	ppm	0.0064	0.0002	2.492	0.0063	0.0066
Na5895	589.592	{ 8 Y_3710	ppm	657.8	7.262	1.104	663	652.7
Na8183	818.326	{ 4 Y_3710	ppm	702	0.6409	0.0913	701.5	702.4
Ni2316	231.604	{4 In2306	ppm	0.0185	0.0004	1.923	0.0187	0.0182
P_1782	178.284	{4 In2306	ppm	0.0557	0.0001	0.1138	0.0557	0.0558
Pb2203	220.353	{4 In2306	ppm	0.0112	0.0018	15.9	0.0124	0.0099
S_1820	182.034	{4 Y_2243	ppm	-166200	194.8	0.1172	-166300	-166000
Sb2068	206.833	{4 Y_2243	ppm	-0.0029	0.0005	16	-0.0033	-0.0026
Se1960	196.090	{4 Y_2243	ppm	0.0004	0.0016	376	-0.0007	0.0016
Si2516	251.611	{1 Y_3710	ppm	3.783	0.0031	0.0824	3.785	3.781
Sn1899	189.989	{4 In2306	ppm	-0.0003	0.0005	166.6	-0.0006	0.0001
Sr4215	421.552	{ 8 Y_3710	ppm	0.3712	0.0011	0.3044	0.3704	0.372
Ti3349	334.904	{1 Y_3600	ppm	0.0014	0.001	71.52	0.0022	0.0007
Tl1908	190.856	{4 In2306	ppm	-0.0082	0.0006	7.853	-0.0086	-0.0077
V_2924	292.402	{1 Y_3600	ppm	0.0015	0.0001	7.542	0.0016	0.0014
Zn2062	206.200	{4 In2306	ppm	0.022	0.0001	0.2856	0.0219	0.022

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	951.18	1.1555	0.12148	950.36	951.99
In2306	230.606	{4 Cts/S	14439	30.853	0.21368	14461	14417
Y_2243	224.306	{4 Cts/S	19666	51.757	0.26318	19702	19629
Y_3600	360.073	{ 9 Cts/S	172860	3344.4	1.9347	170500	175230
Y_3710	371.030	{ 9 Cts/S	55181	395.03	0.71587	54902	55461

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60849-e-5-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:10:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0007	0.0002	29.13	-0.0009	-0.0006
Al3082	308.215 {1	In2306	ppm	1.022	0.0024	0.2326	1.02	1.023
As1890	189.042 {4	Y_2243	ppm	0.0016	0.0008	48.72	0.0011	0.0022
B_2496	249.678 {1	Y_3710	ppm	0.1096	0.0074	6.774	0.1044	0.1149
Ba4554	455.403 {	Y_3710	ppm	0.0568	0.0006	1.085	0.0564	0.0572
Be3130	313.042 {1	Y_3710	ppm	0	0	96.01	0	0
Ca3158	315.887 {1	In2306	ppm	218.6	1.524	0.6971	217.5	219.7
Ca3181	318.128 {1	In2306	ppm	196.2	1.826	0.9306	195	197.5
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0.0001	45.4	0.0001	0.0003
Co2286	228.616 {4	In2306	ppm	0.0006	0.0001	21.01	0.0007	0.0005
Cr2677	267.716 {1	Y_3600	ppm	0.0018	0.0002	9.704	0.002	0.0017
Cu3247	324.754 {1	Y_3600	ppm	0.008	0.0002	3.007	0.0082	0.0079
Fe2404	240.488 {1	In2306	ppm	0.1256	0.0033	2.623	0.1233	0.1279
K_7664	766.490 {	Y_3710	ppm	12.76	0.0543	0.4254	12.72	12.8
K_7698	769.896 {	Y_3710	ppm	13.07	0.0787	0.6017	13.02	13.13
Li6707	670.784 {	Y_3710	ppm	0.0133	0.0003	1.938	0.0135	0.0131
Mg2790	279.079 {1	Y_3710	ppm	12.09	0.0897	0.7423	12.02	12.15
Mn2576	257.610 {1	Y_3600	ppm	0.0663	0.0004	0.6692	0.066	0.0666
Mn2576-2	257.610 {1	Y_3710	ppm	0.064	0.0003	0.4653	0.0637	0.0642
Mo2020	202.030 {4	Y_2243	ppm	0.0063	0	0.2863	0.0063	0.0064
Na5895	589.592 {	Y_3710	ppm	653.9	7.163	1.095	648.8	658.9
Na8183	818.326 {	Y_3710	ppm	707	4.079	0.577	704.1	709.9
Ni2316	231.604 {4	In2306	ppm	0.0189	0.0001	0.5641	0.0189	0.0188
P_1782	178.284 {4	In2306	ppm	0.058	0.0014	2.462	0.057	0.059
Pb2203	220.353 {4	In2306	ppm	0.0103	0.0011	10.65	0.0111	0.0096
S_1820	182.034 {4	Y_2243	ppm	-167100	1091	0.6528	-166300	-167800
Sb2068	206.833 {4	Y_2243	ppm	-0.0047	0	0.0591	-0.0047	-0.0047
Se1960	196.090 {4	Y_2243	ppm	0.0007	0.0006	84.37	0.0003	0.0011
Si2516	251.611 {1	Y_3710	ppm	3.842	0.0064	0.1664	3.837	3.846
Sn1899	189.989 {4	In2306	ppm	0.0001	0.0001	129.2	0	0.0002
Sr4215	421.552 {	Y_3710	ppm	0.3731	0.0019	0.5049	0.3718	0.3745
Ti3349	334.904 {1	Y_3600	ppm	0.0018	0.0001	3.144	0.0018	0.0017
Tl1908	190.856 {4	In2306	ppm	-0.0051	0	0.0331	-0.0051	-0.0051
V_2924	292.402 {1	Y_3600	ppm	0.0014	0.0001	5.226	0.0014	0.0015
Zn2062	206.200 {4	In2306	ppm	0.0232	0.0002	0.9478	0.0231	0.0234

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	956.53	4.7428	0.49583	959.88	953.17
In2306	230.606 {4	Cts/S	14374	106.45	0.74061	14449	14298
Y_2243	224.306 {4	Cts/S	19573	131.56	0.67214	19667	19480
Y_3600	360.073 {	Cts/S	174880	671.22	0.38382	175360	174410
Y_3710	371.030 {	Cts/S	55150	277.65	0.50344	55347	54954

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60849-e-5-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:13:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5905	0.0105	1.773	0.5979	0.5831
Al3082	308.215 {1	In2306	ppm	11.9	0.1548	1.3	11.79	12.01
As1890	189.042 {4	Y_2243	ppm	1.217	0.0234	1.918	1.234	1.201
B_2496	249.678 {1	Y_3710	ppm	1.13	0.0154	1.36	1.119	1.141
Ba4554	455.403 {	Y_3710	ppm	1.088	0.0162	1.486	1.077	1.1
Be3130	313.042 {1	Y_3710	ppm	0.5211	0.008	1.526	0.5155	0.5267
Ca3158	315.887 {1	In2306	ppm	237.1	3.937	1.66	234.4	239.9
Ca3181	318.128 {1	In2306	ppm	211.7	3.429	1.62	209.2	214.1
Cd2288	228.802 {4	Y_2243	ppm	0.5676	0.0097	1.708	0.5745	0.5608
Co2286	228.616 {4	In2306	ppm	1.101	0.0214	1.945	1.116	1.086
Cr2677	267.716 {1	Y_3600	ppm	1.001	0.028	2.794	1.02	0.9809
Cu3247	324.754 {1	Y_3600	ppm	1.086	0.0226	2.081	1.102	1.07
Fe2404	240.488 {1	In2306	ppm	10.55	0.1434	1.358	10.45	10.66
K_7664	766.490 {	Y_3710	ppm	23.39	0.2794	1.194	23.19	23.59
K_7698	769.896 {	Y_3710	ppm	23.94	0.3196	1.335	23.72	24.17
Li6707	670.784 {	Y_3710	ppm	0.5527	0.0069	1.254	0.5478	0.5576
Mg2790	279.079 {1	Y_3710	ppm	22.03	0.3668	1.665	21.77	22.29
Mn2576	257.610 {1	Y_3600	ppm	1.18	0.0285	2.418	1.2	1.16
Mn2576-2	257.610 {1	Y_3710	ppm	1.182	0.0186	1.572	1.169	1.195
Mo2020	202.030 {4	Y_2243	ppm	1.154	0.0226	1.961	1.17	1.138
Na5895	589.592 {	Y_3710	ppm	671.2	9.459	1.409	664.5	677.9
Na8183	818.326 {	Y_3710	ppm	726	10.08	1.389	718.8	733.1
Ni2316	231.604 {4	In2306	ppm	1.161	0.0208	1.795	1.176	1.147
P_1782	178.284 {4	In2306	ppm	0.0609	0.0016	2.618	0.062	0.0597
Pb2203	220.353 {4	In2306	ppm	1.096	0.0197	1.8	1.11	1.082
S_1820	182.034 {4	Y_2243	ppm	-172900	2835	1.64	-174900	-170800
Sb2068	206.833 {4	Y_2243	ppm	1.124	0.0204	1.817	1.139	1.11
Se1960	196.090 {4	Y_2243	ppm	1.233	0.0173	1.402	1.245	1.221
Si2516	251.611 {1	Y_3710	ppm	4.738	0.0887	1.873	4.675	4.801
Sn1899	189.989 {4	In2306	ppm	1.154	0.0236	2.048	1.171	1.137
Sr4215	421.552 {	Y_3710	ppm	0.9242	0.0141	1.529	0.9142	0.9342
Ti3349	334.904 {1	Y_3600	ppm	1.005	0.0224	2.231	1.021	0.9895
Tl1908	190.856 {4	In2306	ppm	0.9419	0.0869	9.225	1.003	0.8804
V_2924	292.402 {1	Y_3600	ppm	1.004	0.0209	2.081	1.019	0.9895
Zn2062	206.200 {4	In2306	ppm	1.161	0.0229	1.975	1.178	1.145

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	939.41	12.615	1.3429	948.33	930.49
In2306	230.606 {4	Cts/S	13847	191.77	1.385	13711	13983
Y_2243	224.306 {4	Cts/S	19147	251.52	1.3136	18970	19325
Y_3600	360.073 {	Cts/S	177900	3085.2	1.7342	175720	180090
Y_3710	371.030 {	Cts/S	55151	851.6	1.5441	55753	54549

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60849-e-5-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:15:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.591	0.0053	0.9019	0.5873	0.5948
Al3082	308.215	{1 In2306	ppm	11.67	0.0762	0.6534	11.61	11.72
As1890	189.042	{4 Y_2243	ppm	1.135	0.008	0.7029	1.14	1.129
B_2496	249.678	{1 Y_3710	ppm	1.11	0.0092	0.8302	1.103	1.116
Ba4554	455.403	{ 7 Y_3710	ppm	1.068	0.0001	0.0097	1.068	1.068
Be3130	313.042	{1 Y_3710	ppm	0.5103	0.0033	0.6408	0.5079	0.5126
Ca3158	315.887	{1 In2306	ppm	231.5	1.92	0.8291	230.2	232.9
Ca3181	318.128	{1 In2306	ppm	205.7	1.266	0.6156	204.8	206.5
Cd2288	228.802	{4 Y_2243	ppm	0.5299	0.004	0.7481	0.5327	0.5271
Co2286	228.616	{4 In2306	ppm	1.026	0.0069	0.6726	1.031	1.021
Cr2677	267.716	{1 Y_3600	ppm	0.9968	0.0089	0.8954	0.9905	1.003
Cu3247	324.754	{1 Y_3600	ppm	1.089	0.0109	0.9991	1.081	1.097
Fe2404	240.488	{1 In2306	ppm	10.27	0.0722	0.7027	10.22	10.32
K_7664	766.490	{ 4 Y_3710	ppm	22.93	0.0628	0.2738	22.88	22.97
K_7698	769.896	{ 4 Y_3710	ppm	23.49	0.025	0.1065	23.51	23.48
Li6707	670.784	{ 8 Y_3710	ppm	0.5443	0.0011	0.2039	0.5451	0.5435
Mg2790	279.079	{1 Y_3710	ppm	21.44	0.1761	0.8213	21.32	21.57
Mn2576	257.610	{1 Y_3600	ppm	1.179	0.0155	1.316	1.168	1.19
Mn2576-2	257.610	{1 Y_3710	ppm	1.165	0.0031	0.2634	1.162	1.167
Mo2020	202.030	{4 Y_2243	ppm	1.085	0.0081	0.7482	1.09	1.079
Na5895	589.592	{ 8 Y_3710	ppm	656.7	4.805	0.7317	653.3	660.1
Na8183	818.326	{ 4 Y_3710	ppm	711.9	2.313	0.325	710.3	713.5
Ni2316	231.604	{4 In2306	ppm	1.088	0.0075	0.6886	1.093	1.082
P_1782	178.284	{4 In2306	ppm	0.0572	0.0015	2.622	0.0583	0.0561
Pb2203	220.353	{4 In2306	ppm	1.023	0.0053	0.5177	1.027	1.019
S_1820	182.034	{4 Y_2243	ppm	-161700	1187	0.7336	-162600	-160900
Sb2068	206.833	{4 Y_2243	ppm	1.054	0.0097	0.9242	1.061	1.047
Se1960	196.090	{4 Y_2243	ppm	1.155	0.0089	0.7716	1.161	1.149
Si2516	251.611	{1 Y_3710	ppm	4.649	0.038	0.8174	4.623	4.676
Sn1899	189.989	{4 In2306	ppm	1.079	0.0071	0.6622	1.084	1.074
Sr4215	421.552	{ 8 Y_3710	ppm	0.9076	0.0023	0.2569	0.906	0.9093
Ti3349	334.904	{1 Y_3600	ppm	1.003	0.0111	1.109	0.9956	1.011
Tl1908	190.856	{4 In2306	ppm	0.9552	0.0284	2.973	0.9753	0.9351
V_2924	292.402	{1 Y_3600	ppm	0.9911	0.003	0.2986	0.989	0.9932
Zn2062	206.200	{4 In2306	ppm	1.084	0.0062	0.5732	1.088	1.08

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	941.54	2.9858	0.31712	943.66	939.43
In2306	230.606	{4 Cts/S	14344	62.351	0.43468	14300	14388
Y_2243	224.306	{4 Cts/S	19804	92.291	0.46601	19739	19870
Y_3600	360.073	{ 9 Cts/S	175070	1238.4	0.70736	175950	174200
Y_3710	371.030	{ 9 Cts/S	55036	259.89	0.47222	55220	54852

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60880-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:17:48
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0004	0.0003	63.11	-0.0006	-0.0002
Al3082	308.215	{1 In2306	ppm	1.31	0.0215	1.639	1.295	1.325
As1890	189.042	{4 Y_2243	ppm	0.0121	0.0017	13.84	0.0109	0.0132
B_2496	249.678	{1 Y_3710	ppm	0.1373	0.0094	6.863	0.1306	0.1439
Ba4554	455.403	{ 7 Y_3710	ppm	0.1041	0.0023	2.189	0.1025	0.1057
Be3130	313.042	{1 Y_3710	ppm	0.0002	0	28.94	0.0002	0.0001
Ca3158	315.887	{1 In2306	ppm	83.47	1.689	2.024	82.27	84.66
Ca3181	318.128	{1 In2306	ppm	74.29	1.432	1.928	73.27	75.3
Cd2288	228.802	{4 Y_2243	ppm	0.0011	0.001	97.93	0.0003	0.0018
Co2286	228.616	{4 In2306	ppm	0.0021	0.0021	99.48	0.0006	0.0035
Cr2677	267.716	{1 Y_3600	ppm	0.0062	0.0003	4.567	0.0064	0.006
Cu3247	324.754	{1 Y_3600	ppm	0.0545	0.0002	0.4493	0.0544	0.0547
Fe2404	240.488	{1 In2306	ppm	1.271	0.0381	2.998	1.244	1.298
K_7664	766.490	{ 4 Y_3710	ppm	7.128	0.1578	2.214	7.016	7.239
K_7698	769.896	{ 4 Y_3710	ppm	7.308	0.198	2.709	7.168	7.448
Li6707	670.784	{ 8 Y_3710	ppm	0.0143	0.0011	7.713	0.0136	0.0151
Mg2790	279.079	{1 Y_3710	ppm	7.186	0.1756	2.444	7.062	7.31
Mn2576	257.610	{1 Y_3600	ppm	0.1476	0.0004	0.2836	0.1473	0.1479
Mn2576-2	257.610	{1 Y_3710	ppm	0.1465	0.0025	1.685	0.1447	0.1482
Mo2020	202.030	{4 Y_2243	ppm	0.0229	0.0033	14.33	0.0205	0.0252
Na5895	589.592	{ 8 Y_3710	ppm	113.9	1.279	1.123	113	114.8
Na8183	818.326	{ 4 Y_3710	ppm	117.3	2.389	2.036	115.6	119
Ni2316	231.604	{4 In2306	ppm	0.0056	0.0024	42.46	0.0039	0.0072
P_1782	178.284	{4 In2306	ppm	0.9393	0.0201	2.138	0.9535	0.9251
Pb2203	220.353	{4 In2306	ppm	0.0148	0.0029	19.69	0.0128	0.0169
S_1820	182.034	{4 Y_2243	ppm	-43520	875.6	2.012	-44140	-42910
Sb2068	206.833	{4 Y_2243	ppm	0.0037	0.0028	76.67	0.0017	0.0057
Se1960	196.090	{4 Y_2243	ppm	0.0066	0.0015	22.26	0.0056	0.0076
Si2516	251.611	{1 Y_3710	ppm	7.479	0.151	2.019	7.372	7.585
Sn1899	189.989	{4 In2306	ppm	0.0033	0.0034	104.5	0.0009	0.0057
Sr4215	421.552	{ 8 Y_3710	ppm	0.3867	0.0081	2.107	0.3809	0.3925
Ti3349	334.904	{1 Y_3600	ppm	0.0126	0.0004	2.982	0.0123	0.0129
Tl1908	190.856	{4 In2306	ppm	0.0988	0.0465	47.11	0.0659	0.1317
V_2924	292.402	{1 Y_3600	ppm	0.0108	0.0001	1.142	0.0108	0.0109
Zn2062	206.200	{4 In2306	ppm	0.2824	0.005	1.761	0.2859	0.2789

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	999.79	15.437	1.544	1010.7	988.87
In2306	230.606	{4 Cts/S	16604	242.99	1.4634	16432	16776
Y_2243	224.306	{4 Cts/S	20696	336.23	1.6246	20458	20934
Y_3600	360.073	{ 9 Cts/S	190430	990.11	0.51994	191130	189730
Y_3710	371.030	{ 9 Cts/S	56992	952.21	1.6708	57665	56318

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:20:14
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.2659	0.0009	0.3341	0.2665	0.2652
Al3082	308.215	{1 In2306	ppm	2.447	0.0018	0.0724	2.448	2.446
As1890	189.042	{4 Y_2243	ppm	0.519	0.0038	0.7351	0.5217	0.5163
B_2496	249.678	{1 Y_3710	ppm	0.4717	0.0004	0.0756	0.4715	0.472
Ba4554	455.403	{ 7 Y_3710	ppm	0.4876	0.0004	0.0775	0.4873	0.4879
Be3130	313.042	{1 Y_3710	ppm	0.4874	0.0001	0.0149	0.4874	0.4875
Ca3158	315.887	{1 In2306	ppm	13.46	0.0192	0.1427	13.48	13.45
Ca3181	318.128	{1 In2306	ppm	11.98	0.0314	0.2622	12	11.96
Cd2288	228.802	{4 Y_2243	ppm	0.5021	0.0033	0.6476	0.5044	0.4998
Co2286	228.616	{4 In2306	ppm	0.4732	0.0028	0.5937	0.4752	0.4712
Cr2677	267.716	{1 Y_3600	ppm	0.5042	0.0003	0.0512	0.504	0.5044
Cu3247	324.754	{1 Y_3600	ppm	0.5215	0.0033	0.6332	0.5238	0.5191
Fe2404	240.488	{1 In2306	ppm	2.446	0.0056	0.2293	2.45	2.442
K_7664	766.490	{ 4 Y_3710	ppm	12.14	0.0021	0.017	12.14	12.14
K_7698	769.896	{ 4 Y_3710	ppm	12.41	0.0166	0.1334	12.4	12.43
Li6707	670.784	{ 8 Y_3710	ppm	0.5056	0.0018	0.3592	0.5044	0.5069
Mg2790	279.079	{1 Y_3710	ppm	4.711	0.0153	0.3254	4.722	4.7
Mn2576	257.610	{1 Y_3600	ppm	0.5645	0.0039	0.6852	0.5672	0.5618
Mn2576-2	257.610	{1 Y_3710	ppm	0.5481	0.0014	0.2612	0.5471	0.5491
Mo2020	202.030	{4 Y_2243	ppm	0.5422	0.0045	0.8286	0.5454	0.5391
Na5895	589.592	{ 8 Y_3710	ppm	12.52	0.031	0.2474	12.5	12.55
Na8183	818.326	{ 4 Y_3710	ppm	12.62	0.0904	0.7163	12.68	12.56
Ni2316	231.604	{4 In2306	ppm	0.4964	0.0033	0.6655	0.4987	0.494
P_1782	178.284	{4 In2306	ppm	0.4873	0.0029	0.6039	0.4894	0.4853
Pb2203	220.353	{4 In2306	ppm	0.4893	0.0028	0.5655	0.4913	0.4874
S_1820	182.034	{4 Y_2243	ppm	-876.4	4.547	0.5188	-873.2	-879.7
Sb2068	206.833	{4 Y_2243	ppm	0.5027	0.0054	1.079	0.5066	0.4989
Se1960	196.090	{4 Y_2243	ppm	0.5281	0.0025	0.4681	0.5299	0.5264
Si2516	251.611	{1 Y_3710	ppm	0.8884	0.0014	0.1624	0.8873	0.8894
Sn1899	189.989	{4 In2306	ppm	0.4993	0.0036	0.7168	0.5018	0.4968
Sr4215	421.552	{ 8 Y_3710	ppm	0.2582	0.0004	0.1381	0.2579	0.2584
Ti3349	334.904	{1 Y_3600	ppm	0.4898	0.0005	0.1007	0.4902	0.4895
Tl1908	190.856	{4 In2306	ppm	0.4787	0.0226	4.728	0.4948	0.4627
V_2924	292.402	{1 Y_3600	ppm	0.4855	0.0057	1.166	0.4895	0.4815
Zn2062	206.200	{4 In2306	ppm	0.465	0.0023	0.4995	0.4667	0.4634

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1019.6	3.4379	0.33718	1017.2	1022
In2306	230.606	{4 Cts/S	18412	78.786	0.42791	18356	18467
Y_2243	224.306	{4 Cts/S	21959	110.67	0.504	21881	22037
Y_3600	360.073	{ 9 Cts/S	198870	627.72	0.31565	198420	199310
Y_3710	371.030	{ 9 Cts/S	57681	144.72	0.2509	57579	57783

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:22:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0049	0.0004	8.473	0.0046	0.0052
Al3082	308.215 {1	In2306	ppm	0.0866	0.0012	1.441	0.0875	0.0857
As1890	189.042 {4	Y_2243	ppm	0.01	0.0001	1.225	0.0099	0.0101
B_2496	249.678 {1	Y_3710	ppm	0.0053	0.0018	34.13	0.0065	0.004
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0001	1.206	0.01	0.0098
Be3130	313.042 {1	Y_3710	ppm	0.005	0.0001	2.065	0.0051	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1227	0.0009	0.7232	0.1221	0.1234
Ca3181	318.128 {1	In2306	ppm	0.0958	0.0035	3.651	0.0983	0.0934
Cd2288	228.802 {4	Y_2243	ppm	0.0056	0.0003	5.41	0.0054	0.0058
Co2286	228.616 {4	In2306	ppm	0.0097	0.0004	4.051	0.0095	0.01
Cr2677	267.716 {1	Y_3600	ppm	0.0107	0.0006	5.551	0.0103	0.0112
Cu3247	324.754 {1	Y_3600	ppm	0.0163	0.0001	0.6415	0.0162	0.0163
Fe2404	240.488 {1	In2306	ppm	0.0962	0.0013	1.374	0.0972	0.0953
K_7664	766.490 {	Y_3710	ppm	0.6077	0.0029	0.469	0.6057	0.6097
K_7698	769.896 {	Y_3710	ppm	0.5993	0.0032	0.5326	0.6016	0.597
Li6707	670.784 {	Y_3710	ppm	0.0104	0.0006	5.635	0.0108	0.01
Mg2790	279.079 {1	Y_3710	ppm	0.0839	0.0049	5.893	0.0804	0.0874
Mn2576	257.610 {1	Y_3600	ppm	0.0118	0.0006	5.404	0.0114	0.0123
Mn2576-2	257.610 {1	Y_3710	ppm	0.0112	0.0004	3.8	0.0109	0.0115
Mo2020	202.030 {4	Y_2243	ppm	0.0131	0.001	7.651	0.0124	0.0138
Na5895	589.592 {	Y_3710	ppm	0.6723	0.0076	1.129	0.6776	0.6669
Na8183	818.326 {	Y_3710	ppm	0.5285	0.2101	39.76	0.6771	0.3799
Ni2316	231.604 {4	In2306	ppm	0.0104	0.0003	2.558	0.0102	0.0106
P_1782	178.284 {4	In2306	ppm	0.0089	0.0013	14.54	0.008	0.0098
Pb2203	220.353 {4	In2306	ppm	0.0101	0.0003	3.352	0.0098	0.0103
S_1820	182.034 {4	Y_2243	ppm	7.617	0.3143	4.126	7.395	7.839
Sb2068	206.833 {4	Y_2243	ppm	0.0107	0.0006	5.466	0.0103	0.0111
Se1960	196.090 {4	Y_2243	ppm	0.0114	0.0015	12.77	0.0104	0.0124
Si2516	251.611 {1	Y_3710	ppm	0.0098	0.0002	2.366	0.0096	0.01
Sn1899	189.989 {4	In2306	ppm	0.0104	0.001	9.404	0.0097	0.0111
Sr4215	421.552 {	Y_3710	ppm	0.0054	0	0.0666	0.0053	0.0054
Ti3349	334.904 {1	Y_3600	ppm	0.0103	0.0006	6.267	0.0099	0.0108
Tl1908	190.856 {4	In2306	ppm	0.054	0.0205	37.92	0.0395	0.0685
V_2924	292.402 {1	Y_3600	ppm	0.01	0.0005	4.944	0.0097	0.0104
Zn2062	206.200 {4	In2306	ppm	0.0096	0.0003	2.971	0.0094	0.0098

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1030.1	5.8352	0.56645	1026	1034.3
In2306	230.606 {4	Cts/S	19482	24.286	0.12466	19500	19465
Y_2243	224.306 {4	Cts/S	22257	27.475	0.12344	22277	22238
Y_3600	360.073 {	Cts/S	198910	9850.3	4.9521	205880	191950
Y_3710	371.030 {	Cts/S	57368	446.71	0.77867	57052	57684

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:24:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0001	41.59	-0.0004	-0.0002
Al3082	308.215 {1	In2306	ppm	0.002	0.0074	374.8	-0.0033	0.0072
As1890	189.042 {4	Y_2243	ppm	-0.0009	0.0002	21.62	-0.001	-0.0008
B_2496	249.678 {1	Y_3710	ppm	-0.0061	0.0007	10.93	-0.0065	-0.0056
Ba4554	455.403 {	Y_3710	ppm	-0.0001	0	35.46	-0.0001	-0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	2133	0	0
Ca3158	315.887 {1	In2306	ppm	0.0143	0.0083	57.87	0.0084	0.0201
Ca3181	318.128 {1	In2306	ppm	0.0005	0.0169	3569	-0.0115	0.0124
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	21.92	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0	0.0001	177.6	-0.0001	0
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0	11.02	0.0003	0.0003
Cu3247	324.754 {1	Y_3600	ppm	0.0051	0.0002	4.079	0.0052	0.0049
Fe2404	240.488 {1	In2306	ppm	-0.0034	0.0042	120.4	-0.0005	-0.0064
K_7664	766.490 {	Y_3710	ppm	0.0333	0.0089	26.68	0.0396	0.0271
K_7698	769.896 {	Y_3710	ppm	-0.0038	0.0165	431.3	0.0079	-0.0155
Li6707	670.784 {	Y_3710	ppm	-0.0004	0.0004	89.34	-0.0007	-0.0002
Mg2790	279.079 {1	Y_3710	ppm	0.002	0.0132	661.9	0.0113	-0.0073
Mn2576	257.610 {1	Y_3600	ppm	0	0.0001	379.9	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0004	0.0001	23.58	-0.0005	-0.0003
Mo2020	202.030 {4	Y_2243	ppm	0.0003	0.0002	64.23	0.0004	0.0002
Na5895	589.592 {	Y_3710	ppm	0.0485	0.0063	12.87	0.0441	0.053
Na8183	818.326 {	Y_3710	ppm	0.1206	0.066	54.77	0.1672	0.0739
Ni2316	231.604 {4	In2306	ppm	0.0002	0.0001	28.6	0.0002	0.0003
P_1782	178.284 {4	In2306	ppm	0	0.0009	2120	0.0007	-0.0006
Pb2203	220.353 {4	In2306	ppm	0.0004	0.0007	192.7	0.0009	-0.0001
S_1820	182.034 {4	Y_2243	ppm	9.319	1.103	11.84	8.538	10.1
Sb2068	206.833 {4	Y_2243	ppm	-0.0006	0.0001	18.6	-0.0005	-0.0007
Se1960	196.090 {4	Y_2243	ppm	0.0001	0.0008	543.7	0.0007	-0.0004
Si2516	251.611 {1	Y_3710	ppm	-0.0009	0.0007	71.74	-0.0014	-0.0005
Sn1899	189.989 {4	In2306	ppm	-0.0001	0	52.32	-0.0001	0
Sr4215	421.552 {	Y_3710	ppm	0	0	22.43	0	0
Ti3349	334.904 {1	Y_3600	ppm	0.0003	0.0001	37.7	0.0004	0.0002
Tl1908	190.856 {4	In2306	ppm	0.0124	0.0084	67.79	0.0065	0.0184
V_2924	292.402 {1	Y_3600	ppm	0.0001	0.0003	279.3	0.0003	-0.0001
Zn2062	206.200 {4	In2306	ppm	0.0001	0	43.42	0	0.0001

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1040.4	2.4066	0.2313	1042.1	1038.7
In2306	230.606 {4	Cts/S	19631	63.297	0.32244	19675	19586
Y_2243	224.306 {4	Cts/S	22346	44.178	0.1977	22378	22315
Y_3600	360.073 {	Cts/S	203000	245.53	0.12095	203180	202830
Y_3710	371.030 {	Cts/S	58035	271.89	0.46849	57842	58227

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60891-I-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:27:17
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0005	0.0001	18.8	-0.0005	-0.0004
Al3082	308.215 {1	In2306	ppm	0.0396	0.0085	21.47	0.0336	0.0457
As1890	189.042 {4	Y_2243	ppm	0.013	0.0001	0.5565	0.013	0.0129
B_2496	249.678 {1	Y_3710	ppm	0.1872	0.0068	3.617	0.1824	0.192
Ba4554	455.403 {	Y_3710	ppm	0.1419	0.0024	1.722	0.1402	0.1436
Be3130	313.042 {1	Y_3710	ppm	0	0	154.2	0	0
Ca3158	315.887 {1	In2306	ppm	104	2.263	2.176	102.4	105.6
Ca3181	318.128 {1	In2306	ppm	91.42	1.973	2.158	90.02	92.81
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	5.127	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	-0.0004	0	7.882	-0.0004	-0.0004
Cr2677	267.716 {1	Y_3600	ppm	0.0027	0.0002	6.727	0.0025	0.0028
Cu3247	324.754 {1	Y_3600	ppm	0.0184	0.0004	2.115	0.0186	0.0181
Fe2404	240.488 {1	In2306	ppm	0.1232	0.0019	1.566	0.1246	0.1219
K_7664	766.490 {	Y_3710	ppm	13.19	0.1722	1.305	13.07	13.32
K_7698	769.896 {	Y_3710	ppm	13.5	0.2674	1.981	13.31	13.69
Li6707	670.784 {	Y_3710	ppm	0.0172	0.0002	0.9203	0.0171	0.0174
Mg2790	279.079 {1	Y_3710	ppm	9.747	0.2021	2.073	9.604	9.89
Mn2576	257.610 {1	Y_3600	ppm	0.0348	0.0008	2.288	0.0353	0.0342
Mn2576-2	257.610 {1	Y_3710	ppm	0.0336	0.0011	3.217	0.0328	0.0343
Mo2020	202.030 {4	Y_2243	ppm	0.4683	0.0079	1.678	0.4738	0.4627
Na5895	589.592 {	Y_3710	ppm	110.4	1.689	1.53	109.2	111.6
Na8183	818.326 {	Y_3710	ppm	111.1	2.223	2.001	109.5	112.7
Ni2316	231.604 {4	In2306	ppm	0.0041	0.0003	6.841	0.0043	0.0039
P_1782	178.284 {4	In2306	ppm	1.934	0.0236	1.218	1.951	1.918
Pb2203	220.353 {4	In2306	ppm	0.0003	0.001	357.4	0.001	-0.0004
S_1820	182.034 {4	Y_2243	ppm	-18370	294.9	1.605	-18580	-18160
Sb2068	206.833 {4	Y_2243	ppm	-0.0032	0.0019	58.09	-0.0019	-0.0046
Se1960	196.090 {4	Y_2243	ppm	0.0023	0.0011	45.64	0.0031	0.0016
Si2516	251.611 {1	Y_3710	ppm	7.615	0.1513	1.986	7.508	7.722
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0002	161.4	-0.0003	0
Sr4215	421.552 {	Y_3710	ppm	0.7468	0.0145	1.935	0.7366	0.757
Ti3349	334.904 {1	Y_3600	ppm	0.0016	0.0003	15.78	0.0018	0.0015
Tl1908	190.856 {4	In2306	ppm	-0.0014	0.002	146.6	-0.0028	0
V_2924	292.402 {1	Y_3600	ppm	0.0043	0.0002	4.339	0.0044	0.0042
Zn2062	206.200 {4	In2306	ppm	0.0228	0.0003	1.446	0.023	0.0226

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	991.24	9.7141	0.97999	998.11	984.38
In2306	230.606 {4	Cts/S	16513	163.35	0.98923	16397	16628
Y_2243	224.306 {4	Cts/S	20482	214	1.0448	20331	20634
Y_3600	360.073 {	Cts/S	185580	957.28	0.51584	184900	186250
Y_3710	371.030 {	Cts/S	56691	538.78	0.95038	57072	56310

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=PDS 600-60878-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:29:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5053	0.0285	5.642	0.5255	0.4852
Al3082	308.215 {1	In2306	ppm	9.888	0.0538	0.5442	9.926	9.85
As1890	189.042 {4	Y_2243	ppm	1.035	0.007	0.6722	1.04	1.03
B_2496	249.678 {1	Y_3710	ppm	1.06	0.0039	0.3681	1.063	1.057
Ba4554	455.403 {	Y_3710	ppm	1.35	0.0013	0.0926	1.349	1.351
Be3130	313.042 {1	Y_3710	ppm	0.4737	0.0005	0.1118	0.4741	0.4733
Ca3158	315.887 {1	In2306	ppm	88.56	0.3971	0.4484	88.84	88.28
Ca3181	318.128 {1	In2306	ppm	77.69	0.5752	0.7405	78.09	77.28
Cd2288	228.802 {4	Y_2243	ppm	0.4948	0.0052	1.049	0.4984	0.4911
Co2286	228.616 {4	In2306	ppm	0.9386	0.008	0.8515	0.9442	0.9329
Cr2677	267.716 {1	Y_3600	ppm	0.9313	0.0561	6.025	0.971	0.8916
Cu3247	324.754 {1	Y_3600	ppm	1.003	0.0632	6.305	1.047	0.958
Fe2404	240.488 {1	In2306	ppm	9.618	0.0754	0.7838	9.671	9.564
K_7664	766.490 {	Y_3710	ppm	15.8	0.04	0.2535	15.77	15.82
K_7698	769.896 {	Y_3710	ppm	16.21	0.1028	0.6338	16.14	16.29
Li6707	670.784 {	Y_3710	ppm	1.021	0.0027	0.2598	1.019	1.023
Mg2790	279.079 {1	Y_3710	ppm	16.7	0.0695	0.4163	16.74	16.65
Mn2576	257.610 {1	Y_3600	ppm	1.052	0.0613	5.825	1.096	1.009
Mn2576-2	257.610 {1	Y_3710	ppm	1.056	0.0009	0.0855	1.055	1.057
Mo2020	202.030 {4	Y_2243	ppm	1.329	0.0157	1.183	1.34	1.318
Na5895	589.592 {	Y_3710	ppm	71.08	0.1417	0.1994	70.98	71.18
Na8183	818.326 {	Y_3710	ppm	71.13	0.2306	0.3242	70.97	71.29
Ni2316	231.604 {4	In2306	ppm	0.9953	0.0089	0.8904	1.002	0.989
P_1782	178.284 {4	In2306	ppm	3.06	0.0279	0.9105	3.079	3.04
Pb2203	220.353 {4	In2306	ppm	0.969	0.01	1.032	0.9761	0.9619
S_1820	182.034 {4	Y_2243	ppm	-2665	33.43	1.255	-2688	-2641
Sb2068	206.833 {4	Y_2243	ppm	0.9763	0.0072	0.741	0.9814	0.9712
Se1960	196.090 {4	Y_2243	ppm	1.05	0.0123	1.174	1.059	1.042
Si2516	251.611 {1	Y_3710	ppm	16.62	0.0227	0.1365	16.6	16.63
Sn1899	189.989 {4	In2306	ppm	0.9897	0.0089	0.899	0.996	0.9834
Sr4215	421.552 {	Y_3710	ppm	1.04	0.0032	0.3073	1.038	1.042
Ti3349	334.904 {1	Y_3600	ppm	0.9152	0.0577	6.301	0.956	0.8744
Tl1908	190.856 {4	In2306	ppm	0.9904	0.0104	1.05	0.9978	0.9831
V_2924	292.402 {1	Y_3600	ppm	0.9093	0.0575	6.328	0.9499	0.8686
Zn2062	206.200 {4	In2306	ppm	0.9785	0.006	0.6162	0.9827	0.9742

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	998.88	6.5711	0.65784	994.24	1003.5
In2306	230.606 {4	Cts/S	16859	111.61	0.66202	16780	16938
Y_2243	224.306 {4	Cts/S	21356	179.9	0.84238	21229	21483
Y_3600	360.073 {	Cts/S	197470	9211.2	4.6645	190960	203990
Y_3710	371.030 {	Cts/S	58212	141.07	0.24234	58112	58312

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=SD 600-60878-d-2-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:31:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0	0.0002	546.2	0.0001	-0.0002
Al3082	308.215	{1 In2306	ppm	-0.0097	0.0122	125.4	-0.0183	-0.0011
As1890	189.042	{4 Y_2243	ppm	0	0.0009	1871	-0.0007	0.0006
B_2496	249.678	{1 Y_3710	ppm	0.0217	0.001	4.642	0.0224	0.021
Ba4554	455.403	{ 7 Y_3710	ppm	0.0755	0.0022	2.954	0.0739	0.077
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	22.56	0.0001	0.0001
Ca3158	315.887	{1 In2306	ppm	15.33	0.1955	1.275	15.19	15.47
Ca3181	318.128	{1 In2306	ppm	13.43	0.2388	1.779	13.26	13.59
Cd2288	228.802	{4 Y_2243	ppm	0.0005	0.0003	62.1	0.0003	0.0007
Co2286	228.616	{4 In2306	ppm	0.0005	0.0007	156.7	0	0.001
Cr2677	267.716	{1 Y_3600	ppm	0.0006	0.0002	40.11	0.0007	0.0004
Cu3247	324.754	{1 Y_3600	ppm	0.0074	0.0003	3.73	0.0076	0.0072
Fe2404	240.488	{1 In2306	ppm	0.0101	0.0023	23.04	0.0118	0.0085
K_7664	766.490	{ 4 Y_3710	ppm	1.246	0.0429	3.44	1.216	1.277
K_7698	769.896	{ 4 Y_3710	ppm	1.293	0.007	0.5389	1.288	1.298
Li6707	670.784	{ 8 Y_3710	ppm	0.0035	0.0002	6.374	0.0034	0.0037
Mg2790	279.079	{1 Y_3710	ppm	1.606	0.0262	1.63	1.588	1.625
Mn2576	257.610	{1 Y_3600	ppm	0.0005	0	3.481	0.0005	0.0005
Mn2576-2	257.610	{1 Y_3710	ppm	0.0004	0.0003	58.33	0.0006	0.0003
Mo2020	202.030	{4 Y_2243	ppm	0.0695	0.0029	4.218	0.0674	0.0716
Na5895	589.592	{ 8 Y_3710	ppm	12.07	0.2528	2.095	11.89	12.24
Na8183	818.326	{ 4 Y_3710	ppm	11.9	0.1539	1.294	11.79	12.01
Ni2316	231.604	{4 In2306	ppm	0.0022	0.0008	35.46	0.0016	0.0028
P_1782	178.284	{4 In2306	ppm	0.3795	0.0018	0.4798	0.3782	0.3808
Pb2203	220.353	{4 In2306	ppm	0.0012	0.0018	150.8	-0.0001	0.0024
S_1820	182.034	{4 Y_2243	ppm	-527.9	4.801	0.9096	-524.5	-531.3
Sb2068	206.833	{4 Y_2243	ppm	0.0009	0.001	111.6	0.0002	0.0016
Se1960	196.090	{4 Y_2243	ppm	0.0014	0.0012	90.89	0.0005	0.0022
Si2516	251.611	{1 Y_3710	ppm	3.154	0.0589	1.868	3.113	3.196
Sn1899	189.989	{4 In2306	ppm	0.0016	0.0017	105.5	0.0004	0.0029
Sr4215	421.552	{ 8 Y_3710	ppm	0.107	0.0023	2.17	0.1054	0.1087
Ti3349	334.904	{1 Y_3600	ppm	0.0004	0.0005	113.2	0.0008	0.0001
Tl1908	190.856	{4 In2306	ppm	-0.0006	0.0012	191.8	-0.0015	0.0002
V_2924	292.402	{1 Y_3600	ppm	0.0009	0.0001	15.37	0.0011	0.0008
Zn2062	206.200	{4 In2306	ppm	0.0118	0.001	8.443	0.0111	0.0125

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1050.4	2.9444	0.2803	1052.5	1048.4
In2306	230.606	{4 Cts/S	18731	122.95	0.65639	18818	18644
Y_2243	224.306	{4 Cts/S	21876	145.81	0.66656	21979	21773
Y_3600	360.073	{ 9 Cts/S	199460	2459.7	1.2332	197720	201200
Y_3710	371.030	{ 9 Cts/S	59015	7.9218	0.01342	59021	59010

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:34:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2666	0.0005	0.1936	0.267	0.2662
Al3082	308.215 {1	In2306	ppm	2.42	0.0235	0.9722	2.404	2.437
As1890	189.042 {4	Y_2243	ppm	0.5219	0.0021	0.4002	0.5234	0.5204
B_2496	249.678 {1	Y_3710	ppm	0.473	0.0015	0.3237	0.4719	0.474
Ba4554	455.403 {	Y_3710	ppm	0.4863	0.0008	0.1687	0.4869	0.4857
Be3130	313.042 {1	Y_3710	ppm	0.4857	0.0011	0.2354	0.4849	0.4865
Ca3158	315.887 {1	In2306	ppm	13.7	0.1484	1.083	13.6	13.81
Ca3181	318.128 {1	In2306	ppm	12.01	0.1219	1.015	11.92	12.09
Cd2288	228.802 {4	Y_2243	ppm	0.5047	0.002	0.3877	0.506	0.5033
Co2286	228.616 {4	In2306	ppm	0.4728	0.003	0.6328	0.4749	0.4707
Cr2677	267.716 {1	Y_3600	ppm	0.5051	0.001	0.1893	0.5058	0.5044
Cu3247	324.754 {1	Y_3600	ppm	0.5205	0.0012	0.2309	0.5197	0.5214
Fe2404	240.488 {1	In2306	ppm	2.458	0.0248	1.009	2.441	2.476
K_7664	766.490 {	Y_3710	ppm	12	0.0326	0.2714	12.02	11.98
K_7698	769.896 {	Y_3710	ppm	12.29	0.017	0.1387	12.3	12.28
Li6707	670.784 {	Y_3710	ppm	0.5021	0.0021	0.4196	0.5036	0.5006
Mg2790	279.079 {1	Y_3710	ppm	4.7	0.0594	1.265	4.658	4.742
Mn2576	257.610 {1	Y_3600	ppm	0.57	0.0015	0.2655	0.5711	0.5689
Mn2576-2	257.610 {1	Y_3710	ppm	0.5497	0.0011	0.1974	0.549	0.5505
Mo2020	202.030 {4	Y_2243	ppm	0.5505	0.0034	0.6134	0.5529	0.5481
Na5895	589.592 {	Y_3710	ppm	12.38	0.0227	0.1835	12.4	12.37
Na8183	818.326 {	Y_3710	ppm	12.62	0.0937	0.7431	12.68	12.55
Ni2316	231.604 {4	In2306	ppm	0.5006	0.0011	0.2278	0.5014	0.4998
P_1782	178.284 {4	In2306	ppm	0.4895	0.0027	0.5554	0.4915	0.4876
Pb2203	220.353 {4	In2306	ppm	0.491	0.0001	0.0199	0.4909	0.4911
S_1820	182.034 {4	Y_2243	ppm	-874.1	1.591	0.182	-875.2	-872.9
Sb2068	206.833 {4	Y_2243	ppm	0.5053	0.0031	0.6143	0.5075	0.5031
Se1960	196.090 {4	Y_2243	ppm	0.5331	0.0016	0.2991	0.5342	0.532
Si2516	251.611 {1	Y_3710	ppm	0.8741	0.0008	0.0947	0.8735	0.8746
Sn1899	189.989 {4	In2306	ppm	0.5039	0.002	0.4056	0.5054	0.5025
Sr4215	421.552 {	Y_3710	ppm	0.2579	0.0007	0.2868	0.2574	0.2584
Ti3349	334.904 {1	Y_3600	ppm	0.4887	0.0002	0.0349	0.4885	0.4888
Tl1908	190.856 {4	In2306	ppm	0.4573	0.0296	6.481	0.4782	0.4363
V_2924	292.402 {1	Y_3600	ppm	0.4864	0.0001	0.0159	0.4864	0.4863
Zn2062	206.200 {4	In2306	ppm	0.4658	0.0007	0.1469	0.4663	0.4653

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1018.1	13.099	1.2867	1027.3	1008.8
In2306	230.606 {4	Cts/S	18341	45.438	0.24773	18309	18373
Y_2243	224.306 {4	Cts/S	21774	75.595	0.34718	21721	21828
Y_3600	360.073 {	Cts/S	198030	339.04	0.17121	197790	198270
Y_3710	371.030 {	Cts/S	57941	348.74	0.60188	58188	57694

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:36:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0051	0.0005	9.367	0.0054	0.0048
Al3082	308.215 {1	In2306	ppm	0.0909	0.0006	0.7063	0.0914	0.0905
As1890	189.042 {4	Y_2243	ppm	0.0106	0.0003	2.649	0.0104	0.0108
B_2496	249.678 {1	Y_3710	ppm	0.0058	0.0006	9.58	0.0062	0.0054
Ba4554	455.403 {	Y_3710	ppm	0.0099	0.0002	1.596	0.0098	0.0101
Be3130	313.042 {1	Y_3710	ppm	0.0049	0.0001	1.095	0.0049	0.0049
Ca3158	315.887 {1	In2306	ppm	0.1253	0.0032	2.537	0.1275	0.123
Ca3181	318.128 {1	In2306	ppm	0.0728	0.008	10.96	0.0785	0.0672
Cd2288	228.802 {4	Y_2243	ppm	0.0057	0.0006	11.01	0.0052	0.0061
Co2286	228.616 {4	In2306	ppm	0.0097	0.0006	6.497	0.0093	0.0102
Cr2677	267.716 {1	Y_3600	ppm	0.0105	0.0001	0.6103	0.0104	0.0105
Cu3247	324.754 {1	Y_3600	ppm	0.0164	0.0003	2.085	0.0167	0.0162
Fe2404	240.488 {1	In2306	ppm	0.097	0.0018	1.877	0.0957	0.0983
K_7664	766.490 {	Y_3710	ppm	0.5907	0.0164	2.783	0.5791	0.6023
K_7698	769.896 {	Y_3710	ppm	0.6268	0.0171	2.724	0.6147	0.6389
Li6707	670.784 {	Y_3710	ppm	0.0102	0.0002	2.421	0.01	0.0103
Mg2790	279.079 {1	Y_3710	ppm	0.0924	0.0034	3.722	0.09	0.0948
Mn2576	257.610 {1	Y_3600	ppm	0.0116	0.0003	2.248	0.0118	0.0114
Mn2576-2	257.610 {1	Y_3710	ppm	0.0111	0.0008	7.156	0.0116	0.0105
Mo2020	202.030 {4	Y_2243	ppm	0.0136	0.0014	10.32	0.0126	0.0146
Na5895	589.592 {	Y_3710	ppm	0.6448	0.0016	0.2495	0.646	0.6437
Na8183	818.326 {	Y_3710	ppm	0.6954	0.2261	32.51	0.5355	0.8553
Ni2316	231.604 {4	In2306	ppm	0.0107	0.0007	6.457	0.0102	0.0112
P_1782	178.284 {4	In2306	ppm	0.0095	0.0013	13.76	0.0086	0.0105
Pb2203	220.353 {4	In2306	ppm	0.0105	0.0001	1.275	0.0106	0.0104
S_1820	182.034 {4	Y_2243	ppm	11.19	1.762	15.75	12.43	9.941
Sb2068	206.833 {4	Y_2243	ppm	0.0108	0.0026	23.9	0.009	0.0127
Se1960	196.090 {4	Y_2243	ppm	0.0109	0.0013	12.07	0.01	0.0119
Si2516	251.611 {1	Y_3710	ppm	0.0092	0.0048	52.44	0.0058	0.0126
Sn1899	189.989 {4	In2306	ppm	0.0109	0.0012	10.96	0.01	0.0117
Sr4215	421.552 {	Y_3710	ppm	0.0053	0.0001	1.276	0.0053	0.0052
Ti3349	334.904 {1	Y_3600	ppm	0.0098	0.0001	1.293	0.0097	0.0099
Tl1908	190.856 {4	In2306	ppm	0.0462	0.018	38.92	0.0335	0.0589
V_2924	292.402 {1	Y_3600	ppm	0.0099	0.0002	1.688	0.0101	0.0098
Zn2062	206.200 {4	In2306	ppm	0.0097	0.0005	5.505	0.0093	0.0101

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1038.1	5.5655	0.53613	1034.1	1042
In2306	230.606 {4	Cts/S	19473	260.76	1.3391	19657	19288
Y_2243	224.306 {4	Cts/S	22147	271.36	1.2253	22339	21955
Y_3600	360.073 {	Cts/S	203970	1653.3	0.81056	202800	205140
Y_3710	371.030 {	Cts/S	57763	166	0.28737	57880	57646

[Sample Header]

Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 10:38:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0	0.0001	1023	0.0001	-0.0001
Al3082	308.215 {1	In2306	ppm	-0.0166	0.0095	56.86	-0.01	-0.0233
As1890	189.042 {4	Y_2243	ppm	0.0005	0.0014	301.1	-0.0005	0.0015
B_2496	249.678 {1	Y_3710	ppm	-0.0049	0.0029	58.77	-0.007	-0.0029
Ba4554	455.403 {	Y_3710	ppm	-0.0002	0	12.38	-0.0002	-0.0002
Be3130	313.042 {1	Y_3710	ppm	0	0	88.86	0	0
Ca3158	315.887 {1	In2306	ppm	0.0129	0.0091	71.02	0.0193	0.0064
Ca3181	318.128 {1	In2306	ppm	-0.009	0.0058	64.39	-0.0049	-0.0131
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	8.418	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	0	0.0001	108.7	0	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0.0003	100.4	0.0001	0.0004
Cu3247	324.754 {1	Y_3600	ppm	0.0052	0.0002	4.376	0.0051	0.0054
Fe2404	240.488 {1	In2306	ppm	0.0003	0.0014	437.4	0.0013	-0.0007
K_7664	766.490 {	Y_3710	ppm	-0.004	0.0087	219.6	-0.0101	0.0022
K_7698	769.896 {	Y_3710	ppm	0.0239	0.0049	20.55	0.0273	0.0204
Li6707	670.784 {	Y_3710	ppm	-0.0001	0.0001	119.9	0	-0.0002
Mg2790	279.079 {1	Y_3710	ppm	-0.0065	0.0046	70.39	-0.0097	-0.0033
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	129	0	-0.0001
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0004	0.0012	276.7	-0.0013	0.0004
Mo2020	202.030 {4	Y_2243	ppm	0.0004	0.0001	28.97	0.0003	0.0004
Na5895	589.592 {	Y_3710	ppm	0.0244	0.0063	26.03	0.0199	0.0289
Na8183	818.326 {	Y_3710	ppm	0.07	0.2	285.7	-0.0714	0.2114
Ni2316	231.604 {4	In2306	ppm	0	0	506.8	0	0
P_1782	178.284 {4	In2306	ppm	0.0005	0	2.986	0.0005	0.0005
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0002	54.2	0.0004	0.0002
S_1820	182.034 {4	Y_2243	ppm	12.43	1.543	12.41	11.34	13.52
Sb2068	206.833 {4	Y_2243	ppm	-0.0021	0	0.1738	-0.0021	-0.0021
Se1960	196.090 {4	Y_2243	ppm	-0.001	0.0017	168.5	-0.0021	0.0002
Si2516	251.611 {1	Y_3710	ppm	-0.0006	0.0054	917.6	-0.0044	0.0032
Sn1899	189.989 {4	In2306	ppm	0	0.0005	1118	0.0003	-0.0004
Sr4215	421.552 {	Y_3710	ppm	0.0001	0.0001	82.54	0	0.0002
Ti3349	334.904 {1	Y_3600	ppm	0	0	87.14	-0.0001	0
Tl1908	190.856 {4	In2306	ppm	0.008	0.0068	85.17	0.0032	0.0129
V_2924	292.402 {1	Y_3600	ppm	0.0002	0.0002	113.4	0	0.0003
Zn2062	206.200 {4	In2306	ppm	0	0	67.37	-0.0001	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1038.9	1.4885	0.14329	1039.9	1037.8
In2306	230.606 {4	Cts/S	19283	37.834	0.1962	19257	19310
Y_2243	224.306 {4	Cts/S	21820	82.487	0.37803	21762	21878
Y_3600	360.073 {	Cts/S	203600	128.54	0.06313	203690	203510
Y_3710	371.030 {	Cts/S	58005	149.12	0.25707	57900	58111

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=mb 600-88099/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:26:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0002	0.0002	76.89	-0.0004	-0.0001
Al3082	308.215 {1	In2306	ppm	-0.0126	0.0012	9.316	-0.0118	-0.0135
As1890	189.042 {4	Y_2243	ppm	-0.0016	0.0003	19.71	-0.0014	-0.0019
B_2496	249.678 {1	Y_3710	ppm	-0.0124	0.0031	25	-0.0102	-0.0146
Ba4554	455.403 {	Y_3710	ppm	0.0026	0	0.0235	0.0026	0.0026
Be3130	313.042 {1	Y_3710	ppm	0	0	9.402	0	0
Ca3158	315.887 {1	In2306	ppm	0.3914	0.0079	2.027	0.3857	0.397
Ca3181	318.128 {1	In2306	ppm	0.2663	0.003	1.136	0.2685	0.2642
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0	7.069	0.0003	0.0003
Co2286	228.616 {4	In2306	ppm	0	0.0001	617.6	-0.0001	0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0007	0.0001	12.39	0.0006	0.0008
Cu3247	324.754 {1	Y_3600	ppm	0.0096	0.0004	4.164	0.0099	0.0093
Fe2404	240.488 {1	In2306	ppm	0.2868	0.0014	0.4747	0.2858	0.2877
K_7664	766.490 {	Y_3710	ppm	0.0463	0.0097	21.05	0.0532	0.0394
K_7698	769.896 {	Y_3710	ppm	-0.1334	0.037	27.75	-0.1595	-0.1072
Li6707	670.784 {	Y_3710	ppm	0	0.0003	691.2	0.0002	-0.0003
Mg2790	279.079 {1	Y_3710	ppm	-0.0011	0.0043	381.5	0.0019	-0.0042
Mn2576	257.610 {1	Y_3600	ppm	0.0027	0.0001	3.674	0.0028	0.0027
Mn2576-2	257.610 {1	Y_3710	ppm	0.0021	0.0001	5.137	0.0022	0.002
Mo2020	202.030 {4	Y_2243	ppm	0.0005	0.0001	24.29	0.0004	0.0006
Na5895	589.592 {	Y_3710	ppm	0.0879	0.0007	0.7444	0.0874	0.0884
Na8183	818.326 {	Y_3710	ppm	0.0994	0.0957	96.37	0.1671	0.0317
Ni2316	231.604 {4	In2306	ppm	0.0006	0.0001	20.69	0.0007	0.0005
P_1782	178.284 {4	In2306	ppm	0.0316	0.0009	2.717	0.0322	0.031
Pb2203	220.353 {4	In2306	ppm	0.0005	0.0002	46.36	0.0007	0.0003
S_1820	182.034 {4	Y_2243	ppm	-4.966	0.5709	11.5	-5.369	-4.562
Sb2068	206.833 {4	Y_2243	ppm	-0.0016	0.0002	14.72	-0.0014	-0.0017
Se1960	196.090 {4	Y_2243	ppm	0.0004	0.0016	397.6	0.0016	-0.0007
Si2516	251.611 {1	Y_3710	ppm	0.0129	0.0042	32.93	0.0099	0.0159
Sn1899	189.989 {4	In2306	ppm	0.0297	0	0.0392	0.0297	0.0297
Sr4215	421.552 {	Y_3710	ppm	0.0003	0	4.224	0.0003	0.0003
Ti3349	334.904 {1	Y_3600	ppm	0.0002	0.0001	52.3	0.0003	0.0001
Tl1908	190.856 {4	In2306	ppm	-0.0048	0.0009	18.13	-0.0054	-0.0041
V_2924	292.402 {1	Y_3600	ppm	-0.0003	0.0001	25.8	-0.0003	-0.0002
Zn2062	206.200 {4	In2306	ppm	0.0528	0.0006	1.065	0.0532	0.0524

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1053.4	1.9061	0.18094	1054.8	1052.1
In2306	230.606 {4	Cts/S	19400	89.054	0.45904	19337	19463
Y_2243	224.306 {4	Cts/S	21305	92.214	0.43282	21240	21371
Y_3600	360.073 {	Cts/S	200660	799.01	0.39819	201230	200100
Y_3710	371.030 {	Cts/S	59514	168.87	0.28374	59634	59395

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=lcs 600-88099/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:28:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5051	0.0051	1.015	0.5015	0.5087
Al3082	308.215 {1	In2306	ppm	83.05	1.125	1.355	82.26	83.85
As1890	189.042 {4	Y_2243	ppm	1.416	0.0202	1.427	1.402	1.43
B_2496	249.678 {1	Y_3710	ppm	0.7343	0.01	1.359	0.7272	0.7413
Ba4554	455.403 {	Y_3710	ppm	2.419	0.0327	1.351	2.396	2.443
Be3130	313.042 {1	Y_3710	ppm	1.454	0.0079	0.5417	1.448	1.459
Ca3158	315.887 {1	In2306	ppm	118.8	1.434	1.207	117.8	119.8
Ca3181	318.128 {1	In2306	ppm	94.26	0.9032	0.9582	93.62	94.9
Cd2288	228.802 {4	Y_2243	ppm	0.7094	0.011	1.545	0.7017	0.7172
Co2286	228.616 {4	In2306	ppm	1.38	0.0194	1.404	1.366	1.393
Cr2677	267.716 {1	Y_3600	ppm	1.033	0.0137	1.323	1.023	1.043
Cu3247	324.754 {1	Y_3600	ppm	1.231	0.0087	0.7064	1.225	1.237
Fe2404	240.488 {1	In2306	ppm	165.6	1.963	1.185	164.2	167
K_7664	766.490 {	Y_3710	ppm	42.49	0.3295	0.7756	42.26	42.72
K_7698	769.896 {	Y_3710	ppm	44.3	0.3151	0.7114	44.07	44.52
Li6707	670.784 {	Y_3710	ppm	0.0845	0.0008	0.9037	0.0839	0.085
Mg2790	279.079 {1	Y_3710	ppm	35.27	0.2483	0.7039	35.09	35.44
Mn2576	257.610 {1	Y_3600	ppm	6.559	0.0783	1.194	6.504	6.614
Mn2576-2	257.610 {1	Y_3710	ppm	6.13	0.0444	0.7235	6.099	6.162
Mo2020	202.030 {4	Y_2243	ppm	0.9956	0.0119	1.192	0.9872	1.004
Na5895	589.592 {	Y_3710	ppm	5.881	0.0582	0.9898	5.84	5.923
Na8183	818.326 {	Y_3710	ppm	6.401	0.0362	0.5653	6.427	6.376
Ni2316	231.604 {4	In2306	ppm	1.398	0.0216	1.545	1.383	1.413
P_1782	178.284 {4	In2306	ppm	8.488	0.1314	1.548	8.395	8.581
Pb2203	220.353 {4	In2306	ppm	1.431	0.0212	1.483	1.416	1.446
S_1820	182.034 {4	Y_2243	ppm	-2499	39.46	1.579	-2471	-2527
Sb2068	206.833 {4	Y_2243	ppm	0.6829	0.0028	0.4123	0.6809	0.6849
Se1960	196.090 {4	Y_2243	ppm	2.163	0.0433	2.004	2.132	2.193
Si2516	251.611 {1	Y_3710	ppm	2.984	0.0162	0.5419	2.973	2.995
Sn1899	189.989 {4	In2306	ppm	1.73	0.0327	1.891	1.706	1.753
Sr4215	421.552 {	Y_3710	ppm	2.423	0.0146	0.604	2.413	2.434
Ti3349	334.904 {1	Y_3600	ppm	3.537	0.0453	1.28	3.505	3.569
Tl1908	190.856 {4	In2306	ppm	1.533	0.0066	0.4291	1.538	1.529
V_2924	292.402 {1	Y_3600	ppm	0.5702	0.0069	1.216	0.5653	0.5751
Zn2062	206.200 {4	In2306	ppm	2.093	0.0297	1.419	2.072	2.114

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	992.5	15.122	1.5236	1003.2	981.8
In2306	230.606 {4	Cts/S	16407	187.88	1.1451	16540	16274
Y_2243	224.306 {4	Cts/S	21362	253.69	1.1876	21541	21182
Y_3600	360.073 {	Cts/S	190450	1373.8	0.72134	191430	189480
Y_3710	371.030 {	Cts/S	60939	525.9	0.86299	61310	60567

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60916-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:30:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0001	0.0005	366.8	-0.0005	0.0002
Al3082	308.215	{1 In2306	ppm	4.582	0.0596	1.301	4.624	4.54
As1890	189.042	{4 Y_2243	ppm	0.0667	0.0019	2.82	0.068	0.0653
B_2496	249.678	{1 Y_3710	ppm	0.1796	0.0029	1.591	0.1817	0.1776
Ba4554	455.403	{ 7 Y_3710	ppm	1.678	0.0085	0.5078	1.684	1.672
Be3130	313.042	{1 Y_3710	ppm	0.0001	0	88.94	0.0001	0
Ca3158	315.887	{1 In2306	ppm	72.56	0.7095	0.9779	73.06	72.05
Ca3181	318.128	{1 In2306	ppm	57.45	0.5376	0.9358	57.84	57.07
Cd2288	228.802	{4 Y_2243	ppm	^ *****	-----	-----	^ -----	^ -----
Co2286	228.616	{4 In2306	ppm	0.2031	0.0017	0.8495	0.2019	0.2043
Cr2677	267.716	{1 Y_3600	ppm	1.65	0.0324	1.965	1.673	1.627
Cu3247	324.754	{1 Y_3600	ppm	2.886	0.0445	1.543	2.918	2.855
Fe2404	240.488	{1 In2306	ppm	3634	59.3	1.632	3675	3592
K_7664	766.490	{ 4 Y_3710	ppm	1.405	0.0143	1.016	1.415	1.394
K_7698	769.896	{ 4 Y_3710	ppm	1.991	0.0111	0.559	1.984	1.999
Li6707	670.784	{ 8 Y_3710	ppm	0.0386	0.0007	1.938	0.0391	0.038
Mg2790	279.079	{1 Y_3710	ppm	33.97	0.4536	1.335	34.29	33.65
Mn2576	257.610	{1 Y_3600	ppm	33.22	0.2762	0.8313	33.42	33.03
Mn2576-2	257.610	{1 Y_3710	ppm	35.26	0.4872	1.382	35.6	34.91
Mo2020	202.030	{4 Y_2243	ppm	0.2216	0.0017	0.7651	0.2204	0.2228
Na5895	589.592	{ 8 Y_3710	ppm	42.19	0.4129	0.9786	42.48	41.9
Na8183	818.326	{ 4 Y_3710	ppm	62.92	0.4463	0.7093	63.24	62.6
Ni2316	231.604	{4 In2306	ppm	1.376	0.0014	0.1034	1.375	1.377
P_1782	178.284	{4 In2306	ppm	6.228	0.002	0.0318	6.227	6.23
Pb2203	220.353	{4 In2306	ppm	0.0309	0.0105	33.79	0.0383	0.0235
S_1820	182.034	{4 Y_2243	ppm	-11190	31.37	0.2805	-11160	-11210
Sb2068	206.833	{4 Y_2243	ppm	0.1224	0.0008	0.6215	0.1229	0.1219
Se1960	196.090	{4 Y_2243	ppm	0.0191	0.0009	4.716	0.0185	0.0198
Si2516	251.611	{1 Y_3710	ppm	7.768	0.1799	2.316	7.895	7.641
Sn1899	189.989	{4 In2306	ppm	0.2263	0.0002	0.1042	0.2261	0.2264
Sr4215	421.552	{ 8 Y_3710	ppm	1.004	0.0098	0.9768	1.011	0.9974
Ti3349	334.904	{1 Y_3600	ppm	0.2422	0.0039	1.612	0.245	0.2394
Tl1908	190.856	{4 In2306	ppm	0.034	0.0274	80.5	0.0146	0.0534
V_2924	292.402	{1 Y_3600	ppm	0.2345	0.0043	1.834	0.2375	0.2314
Zn2062	206.200	{4 In2306	ppm	4.082	0.0107	0.2633	4.075	4.09

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	847.66	10.372	1.2237	840.33	855
In2306	230.606	{4 Cts/S	12943	11.624	0.08981	12951	12934
Y_2243	224.306	{4 Cts/S	16006	20.008	0.12501	16020	15992
Y_3600	360.073	{ 9 Cts/S	156050	2174.5	1.3935	154520	157590
Y_3710	371.030	{ 9 Cts/S	53717	564.75	1.0513	53318	54116

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60911-a-1-e
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:33:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0008	0.0001	14.77	0.0008	0.0007
Al3082	308.215	{1 In2306	ppm	43.24	0.088	0.2034	43.3	43.17
As1890	189.042	{4 Y_2243	ppm	1.41	0.0442	3.137	1.442	1.379
B_2496	249.678	{1 Y_3710	ppm	0.0526	0.0025	4.823	0.0508	0.0544
Ba4554	455.403	{ 7 Y_3710	ppm	0.4552	0.0025	0.553	0.457	0.4534
Be3130	313.042	{1 Y_3710	ppm	0.0035	0	0.2156	0.0035	0.0035
Ca3158	315.887	{1 In2306	ppm	46.43	0.1567	0.3374	46.32	46.54
Ca3181	318.128	{1 In2306	ppm	37.49	0.0394	0.1052	37.46	37.52
Cd2288	228.802	{4 Y_2243	ppm	0.0318	0.0006	1.939	0.0322	0.0313
Co2286	228.616	{4 In2306	ppm	0.1621	0.0037	2.31	0.1647	0.1594
Cr2677	267.716	{1 Y_3600	ppm	0.4394	0.0004	0.0888	0.4397	0.4391
Cu3247	324.754	{1 Y_3600	ppm	7.714	0.0117	0.1513	7.722	7.706
Fe2404	240.488	{1 In2306	ppm	515.6	4.472	0.8674	512.4	518.8
K_7664	766.490	{ 4 Y_3710	ppm	8.897	0.0152	0.171	8.908	8.887
K_7698	769.896	{ 4 Y_3710	ppm	9.232	0.0317	0.3434	9.254	9.209
Li6707	670.784	{ 8 Y_3710	ppm	0.0209	0.0003	1.622	0.0207	0.0211
Mg2790	279.079	{1 Y_3710	ppm	15.3	0.0235	0.1536	15.32	15.28
Mn2576	257.610	{1 Y_3600	ppm	2.456	0.0052	0.2135	2.452	2.459
Mn2576-2	257.610	{1 Y_3710	ppm	2.33	0.0039	0.1693	2.327	2.333
Mo2020	202.030	{4 Y_2243	ppm	2.13	0.0511	2.399	2.166	2.094
Na5895	589.592	{ 8 Y_3710	ppm	4.644	0.0009	0.0197	4.643	4.644
Na8183	818.326	{ 4 Y_3710	ppm	6.385	0.0712	1.115	6.435	6.335
Ni2316	231.604	{4 In2306	ppm	0.2334	0.0053	2.275	0.2372	0.2297
P_1782	178.284	{4 In2306	ppm	1.663	0.0257	1.545	1.681	1.645
Pb2203	220.353	{4 In2306	ppm	0.8837	0.0203	2.301	0.8981	0.8693
S_1820	182.034	{4 Y_2243	ppm	-3132	63.63	2.031	-3177	-3087
Sb2068	206.833	{4 Y_2243	ppm	0.0772	0.0038	4.936	0.0799	0.0745
Se1960	196.090	{4 Y_2243	ppm	0.0024	0.0009	35.73	0.0018	0.0031
Si2516	251.611	{1 Y_3710	ppm	5.202	0.0463	0.8893	5.234	5.169
Sn1899	189.989	{4 In2306	ppm	0.4474	0.0108	2.409	0.455	0.4398
Sr4215	421.552	{ 8 Y_3710	ppm	0.3475	0.0006	0.1697	0.3479	0.3471
Ti3349	334.904	{1 Y_3600	ppm	2.029	0.0066	0.3237	2.034	2.025
Tl1908	190.856	{4 In2306	ppm	0.0017	0.0071	418.9	-0.0033	0.0067
V_2924	292.402	{1 Y_3600	ppm	0.2148	0.0007	0.3135	0.2153	0.2143
Zn2062	206.200	{4 In2306	ppm	11.55	0.2673	2.314	11.74	11.37

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	987.92	3.3914	0.34329	990.32	985.52
In2306	230.606	{4 Cts/S	16575	297.1	1.7925	16365	16785
Y_2243	224.306	{4 Cts/S	20738	368.25	1.7757	20478	20999
Y_3600	360.073	{ 9 Cts/S	192690	909.01	0.47174	192050	193340
Y_3710	371.030	{ 9 Cts/S	59573	152.14	0.25538	59680	59465

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60911-a-1-f du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:35:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0.0013	0.0005	36.84	0.001	0.0017
Al3082	308.215	{1 In2306	ppm	43.06	0.0822	0.1908	43	43.12
As1890	189.042	{4 Y_2243	ppm	1.35	0.0113	0.8334	1.342	1.358
B_2496	249.678	{1 Y_3710	ppm	0.0462	0.0016	3.416	0.0451	0.0473
Ba4554	455.403	{ 7 Y_3710	ppm	0.4254	0.0021	0.4909	0.4239	0.4268
Be3130	313.042	{1 Y_3710	ppm	0.0031	0	0.4947	0.0031	0.0031
Ca3158	315.887	{1 In2306	ppm	46.71	0.1152	0.2465	46.63	46.79
Ca3181	318.128	{1 In2306	ppm	37.43	0.2454	0.6557	37.26	37.61
Cd2288	228.802	{4 Y_2243	ppm	0.0298	0	0.088	0.0298	0.0298
Co2286	228.616	{4 In2306	ppm	0.1586	0.0012	0.7816	0.1578	0.1595
Cr2677	267.716	{1 Y_3600	ppm	0.443	0.0018	0.4075	0.4417	0.4443
Cu3247	324.754	{1 Y_3600	ppm	8.216	0.0416	0.5059	8.187	8.246
Fe2404	240.488	{1 In2306	ppm	511.6	14.08	2.751	501.6	521.5
K_7664	766.490	{ 4 Y_3710	ppm	8.564	0.0535	0.625	8.527	8.602
K_7698	769.896	{ 4 Y_3710	ppm	8.918	0.0614	0.6889	8.875	8.962
Li6707	670.784	{ 8 Y_3710	ppm	0.0199	0.0003	1.687	0.0202	0.0197
Mg2790	279.079	{1 Y_3710	ppm	15.49	0.1375	0.8877	15.39	15.59
Mn2576	257.610	{1 Y_3600	ppm	2.498	0.0231	0.9241	2.482	2.515
Mn2576-2	257.610	{1 Y_3710	ppm	2.392	0.0144	0.6011	2.382	2.402
Mo2020	202.030	{4 Y_2243	ppm	2.136	0.0104	0.486	2.129	2.144
Na5895	589.592	{ 8 Y_3710	ppm	4.639	0.0162	0.3501	4.627	4.65
Na8183	818.326	{ 4 Y_3710	ppm	6.434	0.1232	1.914	6.347	6.521
Ni2316	231.604	{4 In2306	ppm	0.2469	0.0022	0.8775	0.2454	0.2485
P_1782	178.284	{4 In2306	ppm	1.836	0.019	1.034	1.823	1.85
Pb2203	220.353	{4 In2306	ppm	0.8549	0.0028	0.329	0.8529	0.8568
S_1820	182.034	{4 Y_2243	ppm	-3170	15.08	0.4757	-3159	-3181
Sb2068	206.833	{4 Y_2243	ppm	0.0721	0.001	1.445	0.0713	0.0728
Se1960	196.090	{4 Y_2243	ppm	0.0047	0.0013	27.26	0.0056	0.0038
Si2516	251.611	{1 Y_3710	ppm	4.971	0.0101	0.2039	4.978	4.964
Sn1899	189.989	{4 In2306	ppm	0.429	0.0038	0.8929	0.4263	0.4317
Sr4215	421.552	{ 8 Y_3710	ppm	0.3401	0.0015	0.4449	0.3391	0.3412
Ti3349	334.904	{1 Y_3600	ppm	2.044	0.0068	0.333	2.039	2.049
Tl1908	190.856	{4 In2306	ppm	-0.0055	0.0005	8.477	-0.0058	-0.0051
V_2924	292.402	{1 Y_3600	ppm	0.211	0.0009	0.4339	0.2104	0.2116
Zn2062	206.200	{4 In2306	ppm	11.42	0.0804	0.7039	11.36	11.47

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	994.34	2.5822	0.25969	996.16	992.51
In2306	230.606	{4 Cts/S	16417	107.52	0.65494	16493	16341
Y_2243	224.306	{4 Cts/S	20600	98.154	0.47648	20669	20530
Y_3600	360.073	{ 9 Cts/S	193350	752.94	0.38943	193880	192810
Y_3710	371.030	{ 9 Cts/S	59756	245.06	0.4101	59930	59583

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60911-a-1-g ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:37:49
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5433	0.0044	0.816	0.5402	0.5464
Al3082	308.215 {1	In2306	ppm	68.17	1.074	1.575	68.93	67.41
As1890	189.042 {4	Y_2243	ppm	2.315	0.0008	0.0354	2.316	2.315
B_2496	249.678 {1	Y_3710	ppm	0.9052	0.0219	2.418	0.9206	0.8897
Ba4554	455.403 {	Y_3710	ppm	1.371	0.0186	1.354	1.384	1.358
Be3130	313.042 {1	Y_3710	ppm	0.4593	0.0073	1.589	0.4644	0.4541
Ca3158	315.887 {1	In2306	ppm	60.44	1.002	1.658	61.15	59.73
Ca3181	318.128 {1	In2306	ppm	48.75	0.8618	1.768	49.36	48.14
Cd2288	228.802 {4	Y_2243	ppm	0.5238	0.0012	0.2241	0.523	0.5247
Co2286	228.616 {4	In2306	ppm	1.136	0.0017	0.1535	1.135	1.138
Cr2677	267.716 {1	Y_3600	ppm	1.462	0.0045	0.3076	1.459	1.466
Cu3247	324.754 {1	Y_3600	ppm	8.854	0.0605	0.6836	8.811	8.897
Fe2404	240.488 {1	In2306	ppm	546	2.966	0.5433	548.1	543.9
K_7664	766.490 {	Y_3710	ppm	17.68	0.3461	1.957	17.93	17.44
K_7698	769.896 {	Y_3710	ppm	18.34	0.3739	2.039	18.6	18.08
Li6707	670.784 {	Y_3710	ppm	0.5129	0.0094	1.839	0.5196	0.5063
Mg2790	279.079 {1	Y_3710	ppm	27.86	0.463	1.662	28.19	27.53
Mn2576	257.610 {1	Y_3600	ppm	4.266	0.0173	0.4045	4.253	4.278
Mn2576-2	257.610 {1	Y_3710	ppm	3.984	0.0713	1.791	4.034	3.933
Mo2020	202.030 {4	Y_2243	ppm	3.116	0.0023	0.075	3.114	3.118
Na5895	589.592 {	Y_3710	ppm	13.97	0.2411	1.726	14.14	13.8
Na8183	818.326 {	Y_3710	ppm	15.65	0.4742	3.029	15.99	15.32
Ni2316	231.604 {4	In2306	ppm	1.29	0.0008	0.0651	1.29	1.291
P_1782	178.284 {4	In2306	ppm	1.748	0.0117	0.6677	1.74	1.756
Pb2203	220.353 {4	In2306	ppm	1.831	0.0033	0.182	1.829	1.833
S_1820	182.034 {4	Y_2243	ppm	-2882	6.443	0.2235	-2878	-2887
Sb2068	206.833 {4	Y_2243	ppm	0.4633	0.0031	0.6707	0.4655	0.4611
Se1960	196.090 {4	Y_2243	ppm	1.007	0.0005	0.0513	1.008	1.007
Si2516	251.611 {1	Y_3710	ppm	3.092	0.039	1.261	3.12	3.065
Sn1899	189.989 {4	In2306	ppm	1.399	0.0026	0.184	1.397	1.401
Sr4215	421.552 {	Y_3710	ppm	0.8419	0.0136	1.619	0.8515	0.8323
Ti3349	334.904 {1	Y_3600	ppm	3.104	0.012	0.3881	3.095	3.112
Tl1908	190.856 {4	In2306	ppm	0.9245	0.0217	2.348	0.9398	0.9091
V_2924	292.402 {1	Y_3600	ppm	1.154	0.0057	0.4979	1.15	1.159
Zn2062	206.200 {4	In2306	ppm	12.16	0.0241	0.1982	12.14	12.18

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	978.16	18.73	1.9148	964.91	991.4
In2306	230.606 {4	Cts/S	16072	8.2534	0.05135	16078	16066
Y_2243	224.306 {4	Cts/S	20792	0.08161	0.00039	20792	20792
Y_3600	360.073 {	Cts/S	190590	891.72	0.46786	191220	189960
Y_3710	371.030 {	Cts/S	60386	1060.7	1.7565	59636	61136

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60911-a-1-h msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:40:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5501	0.0192	3.487	0.5636	0.5365
Al3082	308.215 {1	In2306	ppm	70.88	0.3594	0.507	71.14	70.63
As1890	189.042 {4	Y_2243	ppm	2.352	0.0267	1.133	2.371	2.333
B_2496	249.678 {1	Y_3710	ppm	0.9221	0.0042	0.4578	0.9251	0.9191
Ba4554	455.403 {	Y_3710	ppm	1.412	0.0036	0.2517	1.414	1.409
Be3130	313.042 {1	Y_3710	ppm	0.4591	0.0008	0.167	0.4597	0.4586
Ca3158	315.887 {1	In2306	ppm	62.41	0.2733	0.4379	62.6	62.22
Ca3181	318.128 {1	In2306	ppm	50.51	0.0493	0.0977	50.54	50.47
Cd2288	228.802 {4	Y_2243	ppm	0.5124	0.0052	1.007	0.5161	0.5088
Co2286	228.616 {4	In2306	ppm	1.121	0.0082	0.7333	1.127	1.115
Cr2677	267.716 {1	Y_3600	ppm	1.507	0.0592	3.928	1.549	1.465
Cu3247	324.754 {1	Y_3600	ppm	9.443	0.1884	1.995	9.576	9.309
Fe2404	240.488 {1	In2306	ppm	573.5	1.708	0.2979	574.7	572.3
K_7664	766.490 {	Y_3710	ppm	18.23	0.0225	0.1234	18.25	18.22
K_7698	769.896 {	Y_3710	ppm	18.9	0.0127	0.0672	18.89	18.91
Li6707	670.784 {	Y_3710	ppm	0.512	0.0001	0.0152	0.5121	0.5119
Mg2790	279.079 {1	Y_3710	ppm	28.92	0.1041	0.3601	28.99	28.84
Mn2576	257.610 {1	Y_3600	ppm	4.364	0.1431	3.28	4.465	4.263
Mn2576-2	257.610 {1	Y_3710	ppm	4.027	0.0344	0.8534	4.051	4.003
Mo2020	202.030 {4	Y_2243	ppm	3.15	0.0368	1.167	3.176	3.124
Na5895	589.592 {	Y_3710	ppm	14.35	0.0252	0.1756	14.37	14.33
Na8183	818.326 {	Y_3710	ppm	16.03	0.0171	0.1069	16.04	16.02
Ni2316	231.604 {4	In2306	ppm	1.268	0.0104	0.8221	1.276	1.261
P_1782	178.284 {4	In2306	ppm	1.703	0.0227	1.332	1.719	1.687
Pb2203	220.353 {4	In2306	ppm	1.851	0.0248	1.339	1.868	1.833
S_1820	182.034 {4	Y_2243	ppm	-3004	30.97	1.031	-3026	-2983
Sb2068	206.833 {4	Y_2243	ppm	0.4534	0.0083	1.837	0.4593	0.4475
Se1960	196.090 {4	Y_2243	ppm	0.987	0.0123	1.243	0.9957	0.9783
Si2516	251.611 {1	Y_3710	ppm	3.594	0.0042	0.1178	3.597	3.591
Sn1899	189.989 {4	In2306	ppm	1.402	0.0074	0.5265	1.407	1.396
Sr4215	421.552 {	Y_3710	ppm	0.8647	0.0052	0.6068	0.8684	0.861
Ti3349	334.904 {1	Y_3600	ppm	3.271	0.113	3.455	3.351	3.191
Tl1908	190.856 {4	In2306	ppm	0.9299	0.0142	1.531	0.94	0.9198
V_2924	292.402 {1	Y_3600	ppm	1.189	0.0437	3.679	1.22	1.158
Zn2062	206.200 {4	In2306	ppm	12.93	0.0643	0.497	12.98	12.88

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	967.75	9.0969	0.94	961.32	974.18
In2306	230.606 {4	Cts/S	16279	125.25	0.76939	16190	16367
Y_2243	224.306 {4	Cts/S	21130	203.28	0.96207	20986	21274
Y_3600	360.073 {	Cts/S	186710	5528.5	2.9609	182810	190620
Y_3710	371.030 {	Cts/S	59925	510.65	0.85216	59564	60286

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=PDS 600-60911-a-1-e
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:42:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.5287	0.0032	0.6076	0.5265	0.531
Al3082	308.215 {1	In2306	ppm	53.09	0.2785	0.5245	52.89	53.28
As1890	189.042 {4	Y_2243	ppm	2.394	0.012	0.4999	2.402	2.385
B_2496	249.678 {1	Y_3710	ppm	0.9313	0.0115	1.233	0.9232	0.9394
Ba4554	455.403 {	Y_3710	ppm	1.406	0.006	0.427	1.402	1.411
Be3130	313.042 {1	Y_3710	ppm	0.4541	0.0044	0.9746	0.4509	0.4572
Ca3158	315.887 {1	In2306	ppm	58.37	0.8519	1.46	57.77	58.97
Ca3181	318.128 {1	In2306	ppm	47.33	0.5345	1.129	46.95	47.71
Cd2288	228.802 {4	Y_2243	ppm	0.5155	0.0021	0.4108	0.517	0.514
Co2286	228.616 {4	In2306	ppm	1.086	0.0042	0.3825	1.089	1.083
Cr2677	267.716 {1	Y_3600	ppm	1.406	0.0032	0.2283	1.408	1.404
Cu3247	324.754 {1	Y_3600	ppm	8.734	0.0318	0.3644	8.712	8.757
Fe2404	240.488 {1	In2306	ppm	523.6	14.35	2.741	513.5	533.8
K_7664	766.490 {	Y_3710	ppm	17.87	0.0175	0.0979	17.86	17.88
K_7698	769.896 {	Y_3710	ppm	18.5	0.014	0.0755	18.51	18.49
Li6707	670.784 {	Y_3710	ppm	0.9995	0.0004	0.0369	0.9998	0.9993
Mg2790	279.079 {1	Y_3710	ppm	24.03	0.2905	1.209	23.83	24.24
Mn2576	257.610 {1	Y_3600	ppm	3.623	0.0073	0.201	3.618	3.628
Mn2576-2	257.610 {1	Y_3710	ppm	3.428	0.0386	1.127	3.401	3.456
Mo2020	202.030 {4	Y_2243	ppm	3.131	0.0129	0.412	3.14	3.122
Na5895	589.592 {	Y_3710	ppm	14.02	0.0248	0.1768	14	14.04
Na8183	818.326 {	Y_3710	ppm	15.64	0.2898	1.853	15.85	15.44
Ni2316	231.604 {4	In2306	ppm	1.234	0.0057	0.4578	1.238	1.23
P_1782	178.284 {4	In2306	ppm	2.635	0.0159	0.603	2.646	2.623
Pb2203	220.353 {4	In2306	ppm	1.82	0.0165	0.9049	1.832	1.808
S_1820	182.034 {4	Y_2243	ppm	-3061	18.21	0.595	-3074	-3048
Sb2068	206.833 {4	Y_2243	ppm	1.029	0.0051	0.4927	1.032	1.025
Se1960	196.090 {4	Y_2243	ppm	1.037	0.0043	0.4172	1.034	1.04
Si2516	251.611 {1	Y_3710	ppm	5.397	0.0228	0.4231	5.381	5.413
Sn1899	189.989 {4	In2306	ppm	1.437	0.0017	0.12	1.438	1.436
Sr4215	421.552 {	Y_3710	ppm	0.8516	0.0045	0.523	0.8485	0.8548
Ti3349	334.904 {1	Y_3600	ppm	2.955	0.0072	0.2437	2.95	2.96
Tl1908	190.856 {4	In2306	ppm	0.9238	0.0119	1.291	0.9154	0.9323
V_2924	292.402 {1	Y_3600	ppm	1.127	0.0018	0.1593	1.129	1.126
Zn2062	206.200 {4	In2306	ppm	12.43	0.0307	0.2471	12.46	12.41

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	979.19	9.5507	0.97537	985.94	972.44
In2306	230.606 {4	Cts/S	16439	51.819	0.31522	16403	16476
Y_2243	224.306 {4	Cts/S	20913	61.02	0.29178	20870	20956
Y_3600	360.073 {	Cts/S	190050	52.869	0.02782	190090	190010
Y_3710	371.030 {	Cts/S	59235	643.3	1.086	59690	58780

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=SD 600-60911-a-1-e@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:44:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	-0.0005	0.0003	50.4	-0.0007	-0.0003
Al3082	308.215	{1 In2306	ppm	8.412	0.0509	0.6046	8.448	8.376
As1890	189.042	{4 Y_2243	ppm	0.2862	0.0067	2.34	0.2909	0.2815
B_2496	249.678	{1 Y_3710	ppm	0.0064	0.0022	34.35	0.008	0.0049
Ba4554	455.403	{ 7 Y_3710	ppm	0.0924	0.0004	0.4362	0.0926	0.0921
Be3130	313.042	{1 Y_3710	ppm	0.0008	0	4.445	0.0008	0.0007
Ca3158	315.887	{1 In2306	ppm	9.344	0.0705	0.7542	9.394	9.294
Ca3181	318.128	{1 In2306	ppm	7.545	0.0727	0.9633	7.596	7.493
Cd2288	228.802	{4 Y_2243	ppm	0.0067	0.0001	1.709	0.0068	0.0066
Co2286	228.616	{4 In2306	ppm	0.0323	0.0008	2.535	0.0329	0.0318
Cr2677	267.716	{1 Y_3600	ppm	0.0951	0.0026	2.761	0.0969	0.0932
Cu3247	324.754	{1 Y_3600	ppm	1.605	0.0463	2.887	1.638	1.572
Fe2404	240.488	{1 In2306	ppm	106.9	0.6641	0.6213	107.4	106.4
K_7664	766.490	{ 4 Y_3710	ppm	1.757	0.0139	0.79	1.766	1.747
K_7698	769.896	{ 4 Y_3710	ppm	1.88	0.0377	2.004	1.853	1.906
Li6707	670.784	{ 8 Y_3710	ppm	0.005	0.0011	22.58	0.0058	0.0042
Mg2790	279.079	{1 Y_3710	ppm	3.202	0.0069	0.2141	3.207	3.197
Mn2576	257.610	{1 Y_3600	ppm	0.5217	0.0125	2.391	0.5305	0.5128
Mn2576-2	257.610	{1 Y_3710	ppm	0.4812	0.0012	0.2468	0.482	0.4803
Mo2020	202.030	{4 Y_2243	ppm	0.4487	0.0101	2.242	0.4558	0.4416
Na5895	589.592	{ 8 Y_3710	ppm	0.9186	0.0031	0.3415	0.9163	0.9208
Na8183	818.326	{ 4 Y_3710	ppm	1.41	0.035	2.48	1.434	1.385
Ni2316	231.604	{4 In2306	ppm	0.0452	0.0009	1.984	0.0459	0.0446
P_1782	178.284	{4 In2306	ppm	0.32	0.0083	2.581	0.3258	0.3141
Pb2203	220.353	{4 In2306	ppm	0.1834	0.0037	2.004	0.186	0.1808
S_1820	182.034	{4 Y_2243	ppm	-633.4	15.53	2.451	-644.4	-622.4
Sb2068	206.833	{4 Y_2243	ppm	0.0262	0.0009	3.313	0.0256	0.0268
Se1960	196.090	{4 Y_2243	ppm	0.0021	0.0012	58.26	0.0012	0.003
Si2516	251.611	{1 Y_3710	ppm	1.117	0.003	0.265	1.119	1.115
Sn1899	189.989	{4 In2306	ppm	0.0913	0.0018	1.992	0.0926	0.09
Sr4215	421.552	{ 8 Y_3710	ppm	0.0706	0.0001	0.1317	0.0706	0.0707
Ti3349	334.904	{1 Y_3600	ppm	0.4354	0.0117	2.68	0.4437	0.4272
Tl1908	190.856	{4 In2306	ppm	0.0004	0.0033	938	-0.002	0.0027
V_2924	292.402	{1 Y_3600	ppm	0.0455	0.0014	3.178	0.0466	0.0445
Zn2062	206.200	{4 In2306	ppm	2.325	0.0597	2.567	2.368	2.283

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	1027.7	8.7348	0.84997	1021.5	1033.8
In2306	230.606	{4 Cts/S	18406	356.1	1.9347	18154	18657
Y_2243	224.306	{4 Cts/S	21442	410.61	1.915	21151	21732
Y_3600	360.073	{ 9 Cts/S	193330	3069	1.5875	191160	195500
Y_3710	371.030	{ 9 Cts/S	58982	209.79	0.35568	58833	59130

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=600-60916-a-1-c@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:46:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{1 Y_3600	ppm	0	0.0002	8126	0.0001	-0.0001
Al3082	308.215	{1 In2306	ppm	0.4092	0.0202	4.948	0.3949	0.4235
As1890	189.042	{4 Y_2243	ppm	0.0027	0.0007	24.75	0.0022	0.0032
B_2496	249.678	{1 Y_3710	ppm	0.0115	0.0043	37.55	0.0085	0.0146
Ba4554	455.403	{ 7 Y_3710	ppm	0.1682	0.0064	3.833	0.1636	0.1727
Be3130	313.042	{1 Y_3710	ppm	-0.0001	0	49.89	-0.0001	0
Ca3158	315.887	{1 In2306	ppm	7.418	0.3355	4.522	7.181	7.655
Ca3181	318.128	{1 In2306	ppm	5.943	0.3137	5.277	5.721	6.165
Cd2288	228.802	{4 Y_2243	ppm	0.0018	0.0002	9.235	0.0017	0.0019
Co2286	228.616	{4 In2306	ppm	0.0216	0.0005	2.536	0.0212	0.022
Cr2677	267.716	{1 Y_3600	ppm	0.1821	0.0076	4.179	0.1875	0.1767
Cu3247	324.754	{1 Y_3600	ppm	0.2737	0.0105	3.826	0.2811	0.2663
Fe2404	240.488	{1 In2306	ppm	530.9	18.73	3.529	517.6	544.1
K_7664	766.490	{ 4 Y_3710	ppm	0.0864	0.0072	8.284	0.0814	0.0915
K_7698	769.896	{ 4 Y_3710	ppm	0.2296	0.0432	18.81	0.1991	0.2601
Li6707	670.784	{ 8 Y_3710	ppm	0.004	0.0005	12.55	0.0044	0.0037
Mg2790	279.079	{1 Y_3710	ppm	3.867	0.1658	4.288	3.75	3.984
Mn2576	257.610	{1 Y_3600	ppm	4.108	0.1459	3.551	4.211	4.005
Mn2576-2	257.610	{1 Y_3710	ppm	3.877	0.1709	4.407	3.756	3.998
Mo2020	202.030	{4 Y_2243	ppm	0.0249	0.0017	6.969	0.0237	0.0261
Na5895	589.592	{ 8 Y_3710	ppm	4.104	0.1639	3.994	3.989	4.22
Na8183	818.326	{ 4 Y_3710	ppm	5.836	0.2942	5.042	5.628	6.044
Ni2316	231.604	{4 In2306	ppm	0.1284	0.0025	1.959	0.1266	0.1302
P_1782	178.284	{4 In2306	ppm	0.5948	0.0128	2.15	0.5858	0.6039
Pb2203	220.353	{4 In2306	ppm	0.0129	0.0013	9.931	0.012	0.0138
S_1820	182.034	{4 Y_2243	ppm	-1186	21.61	1.822	-1171	-1202
Sb2068	206.833	{4 Y_2243	ppm	0.0156	0.0008	5.272	0.015	0.0162
Se1960	196.090	{4 Y_2243	ppm	0.0056	0.0018	32.13	0.0069	0.0043
Si2516	251.611	{1 Y_3710	ppm	0.7846	0.0242	3.089	0.7675	0.8017
Sn1899	189.989	{4 In2306	ppm	0.0231	0.0005	2.15	0.0228	0.0235
Sr4215	421.552	{ 8 Y_3710	ppm	0.1012	0.0036	3.566	0.0986	0.1037
Ti3349	334.904	{1 Y_3600	ppm	0.0253	0.0007	2.617	0.0257	0.0248
Tl1908	190.856	{4 In2306	ppm	-0.0081	0.0007	8.035	-0.0086	-0.0076
V_2924	292.402	{1 Y_3600	ppm	0.0226	0.0014	6.112	0.0236	0.0217
Zn2062	206.200	{4 In2306	ppm	0.4472	0.0112	2.504	0.4393	0.4551

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{1 Cts/S	990.24	36.687	3.7049	1016.2	964.3
In2306	230.606	{4 Cts/S	17361	315.85	1.8193	17584	17138
Y_2243	224.306	{4 Cts/S	20429	372.84	1.825	20693	20166
Y_3600	360.073	{ 9 Cts/S	184590	5406.9	2.9291	180770	188410
Y_3710	371.030	{ 9 Cts/S	56196	2036	3.623	57635	54756

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CCV 964853
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:49:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.2785	0.0145	5.2	0.2683	0.2888
Al3082	308.215 {1	In2306	ppm	2.393	0.0114	0.4771	2.385	2.402
As1890	189.042 {4	Y_2243	ppm	0.5227	0.009	1.712	0.5164	0.5291
B_2496	249.678 {1	Y_3710	ppm	0.4468	0.0047	1.058	0.4501	0.4434
Ba4554	455.403 {	Y_3710	ppm	0.483	0.0029	0.5912	0.485	0.4809
Be3130	313.042 {1	Y_3710	ppm	0.4724	0.0021	0.4504	0.4739	0.4709
Ca3158	315.887 {1	In2306	ppm	14.66	0.0317	0.2164	14.68	14.64
Ca3181	318.128 {1	In2306	ppm	11.91	0.0389	0.3261	11.94	11.89
Cd2288	228.802 {4	Y_2243	ppm	0.4962	0.0097	1.955	0.4893	0.5031
Co2286	228.616 {4	In2306	ppm	0.4576	0.0097	2.121	0.4508	0.4645
Cr2677	267.716 {1	Y_3600	ppm	0.5263	0.0315	5.993	0.504	0.5486
Cu3247	324.754 {1	Y_3600	ppm	0.547	0.0294	5.379	0.5262	0.5678
Fe2404	240.488 {1	In2306	ppm	2.545	0.0263	1.035	2.564	2.527
K_7664	766.490 {	Y_3710	ppm	11.57	0.0932	0.8055	11.64	11.51
K_7698	769.896 {	Y_3710	ppm	12.07	0.1691	1.401	12.19	11.95
Li6707	670.784 {	Y_3710	ppm	0.4955	0.0001	0.0137	0.4954	0.4955
Mg2790	279.079 {1	Y_3710	ppm	4.52	0.0122	0.2704	4.529	4.512
Mn2576	257.610 {1	Y_3600	ppm	0.6337	0.0367	5.793	0.6077	0.6596
Mn2576-2	257.610 {1	Y_3710	ppm	0.5857	0.0027	0.4586	0.5876	0.5838
Mo2020	202.030 {4	Y_2243	ppm	0.559	0.0117	2.084	0.5508	0.5673
Na5895	589.592 {	Y_3710	ppm	12.12	0.0717	0.5913	12.17	12.07
Na8183	818.326 {	Y_3710	ppm	12.15	0.128	1.054	12.24	12.06
Ni2316	231.604 {4	In2306	ppm	0.4958	0.0098	1.968	0.4889	0.5027
P_1782	178.284 {4	In2306	ppm	0.4784	0.0082	1.717	0.4726	0.4842
Pb2203	220.353 {4	In2306	ppm	0.4868	0.0113	2.319	0.4788	0.4947
S_1820	182.034 {4	Y_2243	ppm	-883.9	15.56	1.76	-872.9	-895
Sb2068	206.833 {4	Y_2243	ppm	0.5026	0.0082	1.635	0.4968	0.5084
Se1960	196.090 {4	Y_2243	ppm	0.5433	0.0113	2.08	0.5353	0.5512
Si2516	251.611 {1	Y_3710	ppm	0.8293	0.0083	1	0.8234	0.8352
Sn1899	189.989 {4	In2306	ppm	0.5023	0.0106	2.108	0.4948	0.5097
Sr4215	421.552 {	Y_3710	ppm	0.2569	0.0012	0.4856	0.2578	0.2561
Ti3349	334.904 {1	Y_3600	ppm	0.4899	0.028	5.714	0.4702	0.5097
Tl1908	190.856 {4	In2306	ppm	0.4749	0.0029	0.6076	0.4769	0.4728
V_2924	292.402 {1	Y_3600	ppm	0.4929	0.029	5.889	0.4724	0.5135
Zn2062	206.200 {4	In2306	ppm	0.4507	0.0092	2.034	0.4442	0.4572

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1026.2	5.0637	0.49344	1022.6	1029.8
In2306	230.606 {4	Cts/S	18695	326.66	1.7473	18926	18464
Y_2243	224.306 {4	Cts/S	21701	372.76	1.7177	21964	21437
Y_3600	360.073 {	Cts/S	191640	8621.9	4.4991	197730	185540
Y_3710	371.030 {	Cts/S	58425	438.01	0.7497	58115	58734

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:51:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0054	0.0001	1.701	0.0053	0.0055
Al3082	308.215 {1	In2306	ppm	0.077	0.0116	15.04	0.0688	0.0852
As1890	189.042 {4	Y_2243	ppm	0.0102	0.0004	4.394	0.0105	0.0099
B_2496	249.678 {1	Y_3710	ppm	-0.001	0.0002	16.77	-0.0009	-0.0011
Ba4554	455.403 {	Y_3710	ppm	0.0097	0.0006	5.99	0.0093	0.0101
Be3130	313.042 {1	Y_3710	ppm	0.0047	0.0001	2.762	0.0046	0.0048
Ca3158	315.887 {1	In2306	ppm	0.1262	0.0013	1.009	0.1271	0.1253
Ca3181	318.128 {1	In2306	ppm	0.0748	0.0231	30.94	0.0584	0.0911
Cd2288	228.802 {4	Y_2243	ppm	0.0055	0.0001	2.614	0.0054	0.0056
Co2286	228.616 {4	In2306	ppm	0.0095	0	0.2343	0.0094	0.0095
Cr2677	267.716 {1	Y_3600	ppm	0.0106	0.0001	0.815	0.0105	0.0106
Cu3247	324.754 {1	Y_3600	ppm	0.0174	0.0002	1.081	0.0175	0.0173
Fe2404	240.488 {1	In2306	ppm	0.1046	0.007	6.705	0.0997	0.1096
K_7664	766.490 {	Y_3710	ppm	0.5591	0.0293	5.232	0.5384	0.5798
K_7698	769.896 {	Y_3710	ppm	0.5828	0.0278	4.778	0.5631	0.6025
Li6707	670.784 {	Y_3710	ppm	0.0107	0.0008	7.662	0.0101	0.0112
Mg2790	279.079 {1	Y_3710	ppm	0.0828	0.0156	18.84	0.0938	0.0717
Mn2576	257.610 {1	Y_3600	ppm	0.0127	0.0001	0.7938	0.0127	0.0126
Mn2576-2	257.610 {1	Y_3710	ppm	0.011	0.0002	1.501	0.0109	0.0112
Mo2020	202.030 {4	Y_2243	ppm	0.0138	0.0005	3.273	0.0135	0.0141
Na5895	589.592 {	Y_3710	ppm	0.5721	0.0184	3.218	0.5591	0.5852
Na8183	818.326 {	Y_3710	ppm	0.6794	0.0523	7.7	0.6424	0.7164
Ni2316	231.604 {4	In2306	ppm	0.0106	0	0.2098	0.0106	0.0105
P_1782	178.284 {4	In2306	ppm	0.0092	0.0002	2.552	0.0094	0.009
Pb2203	220.353 {4	In2306	ppm	0.0108	0.0004	4.148	0.0105	0.0111
S_1820	182.034 {4	Y_2243	ppm	12.04	0.3314	2.753	11.81	12.27
Sb2068	206.833 {4	Y_2243	ppm	0.0158	0.0001	0.7486	0.0159	0.0157
Se1960	196.090 {4	Y_2243	ppm	0.0125	0.0003	2.238	0.0123	0.0127
Si2516	251.611 {1	Y_3710	ppm	0.0115	0.0037	32.2	0.0141	0.0089
Sn1899	189.989 {4	In2306	ppm	0.0107	0.0002	1.901	0.0105	0.0108
Sr4215	421.552 {	Y_3710	ppm	0.0052	0.0002	3.131	0.0051	0.0054
Ti3349	334.904 {1	Y_3600	ppm	0.0097	0.0002	2.318	0.0099	0.0096
Tl1908	190.856 {4	In2306	ppm	0.0216	0.0132	61.38	0.0122	0.0309
V_2924	292.402 {1	Y_3600	ppm	0.0096	0.0001	1.051	0.0096	0.0095
Zn2062	206.200 {4	In2306	ppm	0.0094	0	0.3132	0.0095	0.0094

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1065.4	29.452	2.7645	1086.2	1044.5
In2306	230.606 {4	Cts/S	19416	444.45	2.2891	19101	19730
Y_2243	224.306 {4	Cts/S	21642	509.73	2.3552	21282	22003
Y_3600	360.073 {	Cts/S	200300	1272.8	0.63542	199400	201200
Y_3710	371.030 {	Cts/S	59510	1633.9	2.7456	60665	58354

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:53:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	-0.0003	0.0001	49.55	-0.0002	-0.0004
Al3082	308.215 {1	In2306	ppm	-0.008	0.0038	47.61	-0.0053	-0.0107
As1890	189.042 {4	Y_2243	ppm	-0.0004	0.0002	49.23	-0.0006	-0.0003
B_2496	249.678 {1	Y_3710	ppm	-0.0099	0.002	20.08	-0.0113	-0.0085
Ba4554	455.403 {	Y_3710	ppm	-0.0003	0	11.57	-0.0003	-0.0003
Be3130	313.042 {1	Y_3710	ppm	0	0	366.1	0	0
Ca3158	315.887 {1	In2306	ppm	0.0137	0.0018	12.98	0.0124	0.0149
Ca3181	318.128 {1	In2306	ppm	-0.0075	0.016	215.2	-0.0188	0.0039
Cd2288	228.802 {4	Y_2243	ppm	0.0002	0	16.99	0.0002	0.0002
Co2286	228.616 {4	In2306	ppm	-0.0001	0	52.72	-0.0001	-0.0001
Cr2677	267.716 {1	Y_3600	ppm	0.0003	0.0003	108.1	0.0004	0.0001
Cu3247	324.754 {1	Y_3600	ppm	0.0071	0.0002	2.66	0.007	0.0072
Fe2404	240.488 {1	In2306	ppm	0.0026	0.0015	56.41	0.0037	0.0016
K_7664	766.490 {	Y_3710	ppm	-0.0107	0.0075	69.95	-0.0054	-0.016
K_7698	769.896 {	Y_3710	ppm	0.0094	0.0201	213.7	0.0236	-0.0048
Li6707	670.784 {	Y_3710	ppm	-0.0002	0.0017	903.8	0.001	-0.0014
Mg2790	279.079 {1	Y_3710	ppm	-0.0142	0.0114	79.99	-0.0062	-0.0223
Mn2576	257.610 {1	Y_3600	ppm	-0.0001	0.0001	108.2	0	-0.0002
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0002	0	2.676	-0.0002	-0.0002
Mo2020	202.030 {4	Y_2243	ppm	0.0003	0.0003	109.3	0.0001	0.0005
Na5895	589.592 {	Y_3710	ppm	-0.0109	0.0095	87.66	-0.0041	-0.0176
Na8183	818.326 {	Y_3710	ppm	0.1156	0.0897	77.54	0.0522	0.179
Ni2316	231.604 {4	In2306	ppm	0.0003	0.0002	56.74	0.0004	0.0002
P_1782	178.284 {4	In2306	ppm	-0.0005	0.0002	42.25	-0.0006	-0.0003
Pb2203	220.353 {4	In2306	ppm	0.0003	0.0001	34.63	0.0002	0.0004
S_1820	182.034 {4	Y_2243	ppm	12.96	0.2371	1.83	13.12	12.79
Sb2068	206.833 {4	Y_2243	ppm	0.0024	0.0011	43.51	0.0017	0.0032
Se1960	196.090 {4	Y_2243	ppm	0.0007	0.0009	136.5	0	0.0013
Si2516	251.611 {1	Y_3710	ppm	0.0044	0.0022	50.84	0.0028	0.006
Sn1899	189.989 {4	In2306	ppm	-0.0001	0.0003	632.9	-0.0003	0.0002
Sr4215	421.552 {	Y_3710	ppm	0	0.0001	922	-0.0001	0.0001
Ti3349	334.904 {1	Y_3600	ppm	-0.0001	0.0009	1155	-0.0007	0.0006
Tl1908	190.856 {4	In2306	ppm	-0.0023	0.0021	93.16	-0.0037	-0.0008
V_2924	292.402 {1	Y_3600	ppm	-0.0001	0	15.72	-0.0002	-0.0001
Zn2062	206.200 {4	In2306	ppm	0	0	164	0.0001	0

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	1044.6	8.3598	0.80031	1038.7	1050.5
In2306	230.606 {4	Cts/S	19671	714.79	3.6336	20177	19166
Y_2243	224.306 {4	Cts/S	21910	790.32	3.6072	22469	21351
Y_3600	360.073 {	Cts/S	196300	1382.6	0.70431	197280	195330
Y_3710	371.030 {	Cts/S	58522	354.45	0.60566	58271	58773

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 12:59:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.0002	0.0002	111.8	0.0004	0
Al3082	308.215 {1	In2306	ppm	535.2	0.8956	0.1674	534.6	535.8
As1890	189.042 {4	Y_2243	ppm	-0.0078	0.0023	29.37	-0.0094	-0.0062
B_2496	249.678 {1	Y_3710	ppm	-0.0109	0.0021	19.53	-0.0124	-0.0094
Ba4554	455.403 {	Y_3710	ppm	0.0002	0.0001	32.69	0.0002	0.0001
Be3130	313.042 {1	Y_3710	ppm	0	0	87.89	0	0
Ca3158	315.887 {1	In2306	ppm	599.2	4.1	0.6843	596.3	602.1
Ca3181	318.128 {1	In2306	ppm	501	2.239	0.4469	499.4	502.6
Cd2288	228.802 {4	Y_2243	ppm	0.0003	0.0002	50.07	0.0002	0.0004
Co2286	228.616 {4	In2306	ppm	-0.0008	0.0001	10.64	-0.0009	-0.0008
Cr2677	267.716 {1	Y_3600	ppm	0.0033	0.0001	2.611	0.0034	0.0033
Cu3247	324.754 {1	Y_3600	ppm	0.0094	0.0005	5.111	0.0091	0.0097
Fe2404	240.488 {1	In2306	ppm	198.7	0.8322	0.4188	198.1	199.3
K_7664	766.490 {	Y_3710	ppm	-0.0226	0.0241	106.2	-0.0056	-0.0396
K_7698	769.896 {	Y_3710	ppm	-0.3254	0.0076	2.339	-0.32	-0.3307
Li6707	670.784 {	Y_3710	ppm	0.0163	0.0006	3.823	0.0167	0.0158
Mg2790	279.079 {1	Y_3710	ppm	476.9	1.291	0.2707	476	477.8
Mn2576	257.610 {1	Y_3600	ppm	-0.0046	0	1.047	-0.0046	-0.0045
Mn2576-2	257.610 {1	Y_3710	ppm	-0.0049	0.0006	11.45	-0.0045	-0.0053
Mo2020	202.030 {4	Y_2243	ppm	-0.0015	0.0001	8.347	-0.0014	-0.0016
Na5895	589.592 {	Y_3710	ppm	0.0113	0.0003	2.603	0.0111	0.0115
Na8183	818.326 {	Y_3710	ppm	0.772	0.0215	2.786	0.7568	0.7872
Ni2316	231.604 {4	In2306	ppm	0.0075	0.0003	3.804	0.0077	0.0073
P_1782	178.284 {4	In2306	ppm	0.0059	0.0008	13.27	0.0053	0.0064
Pb2203	220.353 {4	In2306	ppm	-0.0008	0.0003	35.98	-0.001	-0.0006
S_1820	182.034 {4	Y_2243	ppm	86.41	2.939	3.402	88.49	84.33
Sb2068	206.833 {4	Y_2243	ppm	-0.0143	0.0001	0.6045	-0.0144	-0.0143
Se1960	196.090 {4	Y_2243	ppm	-0.0036	0.0021	58.02	-0.0021	-0.0051
Si2516	251.611 {1	Y_3710	ppm	0.0044	0.001	23.92	0.0051	0.0036
Sn1899	189.989 {4	In2306	ppm	0.0047	0.0006	12.69	0.0043	0.0051
Sr4215	421.552 {	Y_3710	ppm	0.0024	0.0001	3.092	0.0025	0.0024
Ti3349	334.904 {1	Y_3600	ppm	0.003	0	0.8493	0.0029	0.003
Tl1908	190.856 {4	In2306	ppm	-0.0086	0.0001	1.535	-0.0087	-0.0085
V_2924	292.402 {1	Y_3600	ppm	-0.0041	0	0.0573	-0.0041	-0.0042
Zn2062	206.200 {4	In2306	ppm	0.009	0.0001	1.271	0.0091	0.0089

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	906.1	5.7845	0.63839	910.19	902.01
In2306	230.606 {4	Cts/S	13527	169.27	1.2513	13408	13647
Y_2243	224.306 {4	Cts/S	18906	248.11	1.3123	18731	19082
Y_3600	360.073 {	Cts/S	171850	722.06	0.42017	171340	172360
Y_3710	371.030 {	Cts/S	55907	280.01	0.50085	56105	55709

[Sample Header]
Method=ICP6500Metals_TRY3(v1024)
SampleName=ICSAB 943212
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/7/2012 13:02:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068 {1	Y_3600	ppm	0.607	0.0025	0.406	0.6053	0.6087
Al3082	308.215 {1	In2306	ppm	546	2.813	0.5153	547.9	544
As1890	189.042 {4	Y_2243	ppm	1.076	0.0069	0.6432	1.071	1.081
B_2496	249.678 {1	Y_3710	ppm	0.9134	0.0045	0.4915	0.9102	0.9165
Ba4554	455.403 {	Y_3710	ppm	0.9852	0.0018	0.1849	0.9865	0.9839
Be3130	313.042 {1	Y_3710	ppm	0.4666	0.0012	0.2647	0.4675	0.4658
Ca3158	315.887 {1	In2306	ppm	617.8	8.077	1.307	623.5	612.1
Ca3181	318.128 {1	In2306	ppm	509.3	2.458	0.4827	511	507.6
Cd2288	228.802 {4	Y_2243	ppm	0.5219	0.003	0.5747	0.5197	0.524
Co2286	228.616 {4	In2306	ppm	0.973	0.0032	0.3295	0.9708	0.9753
Cr2677	267.716 {1	Y_3600	ppm	0.9886	0.0003	0.0308	0.9884	0.9888
Cu3247	324.754 {1	Y_3600	ppm	1.152	0.0044	0.386	1.155	1.149
Fe2404	240.488 {1	In2306	ppm	207.9	1.335	0.6423	208.8	206.9
K_7664	766.490 {	Y_3710	ppm	9.781	0.0448	0.4582	9.749	9.813
K_7698	769.896 {	Y_3710	ppm	9.994	0.0577	0.5776	9.953	10.03
Li6707	670.784 {	Y_3710	ppm	1.074	0.0027	0.2533	1.076	1.072
Mg2790	279.079 {1	Y_3710	ppm	483	0.0036	0.0007	483	483
Mn2576	257.610 {1	Y_3600	ppm	1.185	0.0047	0.3948	1.182	1.189
Mn2576-2	257.610 {1	Y_3710	ppm	1.12	0.0038	0.3412	1.118	1.123
Mo2020	202.030 {4	Y_2243	ppm	1.035	0.0024	0.2274	1.033	1.036
Na5895	589.592 {	Y_3710	ppm	10.27	0.0159	0.1548	10.28	10.26
Na8183	818.326 {	Y_3710	ppm	10.66	0.2832	2.656	10.46	10.86
Ni2316	231.604 {4	In2306	ppm	1.047	0.0036	0.3438	1.045	1.05
P_1782	178.284 {4	In2306	ppm	1.166	0.0043	0.3693	1.163	1.169
Pb2203	220.353 {4	In2306	ppm	1	0.0025	0.2545	0.9987	1.002
S_1820	182.034 {4	Y_2243	ppm	83.75	1.947	2.325	82.37	85.12
Sb2068	206.833 {4	Y_2243	ppm	0.9848	0.0008	0.0862	0.9842	0.9854
Se1960	196.090 {4	Y_2243	ppm	1.088	0.0053	0.4865	1.084	1.092
Si2516	251.611 {1	Y_3710	ppm	0.8567	0.005	0.5784	0.8532	0.8602
Sn1899	189.989 {4	In2306	ppm	1.063	0.0025	0.2335	1.061	1.064
Sr4215	421.552 {	Y_3710	ppm	0.5208	0.0007	0.1325	0.5213	0.5203
Ti3349	334.904 {1	Y_3600	ppm	0.9549	0.0044	0.4578	0.9518	0.958
Tl1908	190.856 {4	In2306	ppm	0.9025	0.0179	1.981	0.9151	0.8898
V_2924	292.402 {1	Y_3600	ppm	0.9314	0.002	0.2172	0.93	0.9329
Zn2062	206.200 {4	In2306	ppm	0.9967	0.0048	0.4798	0.9933	1

[Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606 {1	Cts/S	895.29	2.9146	0.32555	893.23	897.35
In2306	230.606 {4	Cts/S	13574	27.428	0.20207	13593	13554
Y_2243	224.306 {4	Cts/S	19071	34.333	0.18003	19095	19046
Y_3600	360.073 {	Cts/S	168490	263.61	0.15646	168670	168300
Y_3710	371.030 {	Cts/S	55553	39.459	0.07103	55580	55525

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Batch Number: 87946 Batch Start Date: 09/05/12 14:39 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	METH202 00023	METHCL 00041	METHNO3 00031
MB 600-87946/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
LCS 600-87946/2		3050B, 6010B		CALC NOT SET TO RUN	0.50 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-1	2012-FWFS-9 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.04 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-2	2012-FWFS-9 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.01 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-3	2012-FWFS-8 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.01 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-4	2012-FWFS-8 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-5	2012-FWFS-7 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.06 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-6	2012-FWFS-7 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-6 DU	2012-FWFS-7 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.01 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-6 MS	2012-FWFS-7 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.04 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-6 MSD	2012-FWFS-7 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-7	2012-FWFS-6 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.07 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-B-8	2012-FWFS-6 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-A-9	2012-FWCS-1 (2-2.5')	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-A-10	2012-FWCS-12 (0-2')	3050B, 6010B	T	CALC NOT SET TO RUN	1.01 g	50 mL	4 mL	2.5 mL	5 mL
600-60819-A-11	2012-FWCS-11 (0-2')	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSLCSS 00017	METSPIKEA 00012	METSPIKEB 00013			
MB 600-87946/1		3050B, 6010B							
LCS 600-87946/2		3050B, 6010B		0.5 g					
600-60819-B-1	2012-FWFS-9 (Floor)	3050B, 6010B	T						
600-60819-B-2	2012-FWFS-9 (Wall)	3050B, 6010B	T						
600-60819-B-3	2012-FWFS-8 (Floor)	3050B, 6010B	T						
600-60819-B-4	2012-FWFS-8 (Wall)	3050B, 6010B	T						

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Batch Number: 87946 Batch Start Date: 09/05/12 14:39 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSLCSS 00017	METSPIKEA 00012	METSPIKEB 00013			
600-60819-B-5	2012-FWFS-7 (Floor)	3050B, 6010B	T						
600-60819-B-6	2012-FWFS-7 (Wall)	3050B, 6010B	T						
600-60819-B-6 DU	2012-FWFS-7 (Wall)	3050B, 6010B	T						
600-60819-B-6 MS	2012-FWFS-7 (Wall)	3050B, 6010B	T		250 uL	250 uL			
600-60819-B-6 MSD	2012-FWFS-7 (Wall)	3050B, 6010B	T		250 uL	250 uL			
600-60819-B-7	2012-FWFS-6 (Floor)	3050B, 6010B	T						
600-60819-B-8	2012-FWFS-6 (Wall)	3050B, 6010B	T						
600-60819-A-9	2012-FWCS-1 (2-2.5')	3050B, 6010B	T						
600-60819-A-10	2012-FWCS-12 (0-2')	3050B, 6010B	T						
600-60819-A-11	2012-FWCS-11 (0-2')	3050B, 6010B	T						

Batch Notes	
Balance ID	B-6
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95 Degrees C
ID number of the thermometer	517

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Batch Number: 88007 Batch Start Date: 09/06/12 10:21 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	METHCL 00041	METHNO3 00031	METSPIKEA 00012
MB 600-88007/1		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	
LCS 600-88007/2		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	250 uL
600-60819-A-13	2012-FWCS-EB	3010A, 6010B	T	<2	50 mL	50 mL	2.5 mL	2.5 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSPIKEB 00013
MB 600-88007/1		3010A, 6010B		
LCS 600-88007/2		3010A, 6010B		250 uL
600-60819-A-13	2012-FWCS-EB	3010A, 6010B	T	

Batch Notes	
Hood ID or number	M5
Hot Block ID number	HB 04
Temperature	95
ID number of the thermometer	555

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-9 (Floor)	600-60819-1
2012-FWFS-9 (Wall)	600-60819-2
2012-FWFS-8 (Floor)	600-60819-3
2012-FWFS-8 (Wall)	600-60819-4
2012-FWFS-7 (Floor)	600-60819-5
2012-FWFS-7 (Wall)	600-60819-6
2012-FWFS-6 (Floor)	600-60819-7
2012-FWFS-6 (Wall)	600-60819-8
2012-FWCS-1 (2-2.5')	600-60819-9
2012-FWCS-12 (0-2')	600-60819-10
2012-FWCS-11 (0-2')	600-60819-11

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-60819-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 09/05/2005 11:35

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 09/05/2012 13:15 End Date: 09/05/2012 16:06

Lab Sample ID	D/F	Type	Time	Analytes	
				%Sol	Moist
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
ZZZZZZ			13:15		
600-60819-1	1	T	13:15	X	X
600-60819-2	1	T	13:15	X	X
600-60819-3	1	T	13:15	X	X
600-60819-4	1	T	13:15	X	X
600-60819-5	1	T	13:15	X	X
600-60819-6	1	T	13:15	X	X
600-60819-7	1	T	13:15	X	X
600-60819-8	1	T	13:15	X	X
600-60819-9	1	T	13:15	X	X
600-60819-10	1	T	13:15	X	X
600-60819-10 DU	1	T	13:15	X	X
600-60819-11	1	T	13:15	X	X
ZZZZZZ			14:12		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston   Job No.: 600-60819-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 09/05/2012 13:15   End Date: 09/05/2012 16:06

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		
ZZZZZZ			16:06		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-60819-1

SDG No.:

Batch Number: 87931 Batch Start Date: 09/05/12 13:15 Batch Analyst: Stephney, Amy

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
600-60819-A-1	2012-FWFS-9 (Floor)	Moisture	T	3.09 g	43.91 g	42.27 g			
600-60819-A-2	2012-FWFS-9 (Wall)	Moisture	T	3.09 g	19.07 g	14.70 g			
600-60819-A-3	2012-FWFS-8 (Floor)	Moisture	T	3.09 g	17.43 g	14.01 g			
600-60819-A-4	2012-FWFS-8 (Wall)	Moisture	T	3.09 g	23.19 g	18.98 g			
600-60819-A-5	2012-FWFS-7 (Floor)	Moisture	T	3.09 g	26.26 g	20.88 g			
600-60819-A-6	2012-FWFS-7 (Wall)	Moisture	T	3.09 g	27.37 g	22.82 g			
600-60819-A-7	2012-FWFS-6 (Floor)	Moisture	T	3.09 g	23.92 g	19.08 g			
600-60819-A-8	2012-FWFS-6 (Wall)	Moisture	T	3.09 g	39.88 g	31.90 g			
600-60819-A-9	2012-FWCS-1 (2-2.5')	Moisture	T	3.07 g	20.84 g	19.08 g			
600-60819-A-10	2012-FWCS-12 (0-2')	Moisture	T	3.07 g	23.73 g	21.19 g			
600-60819-A-10 DU	2012-FWCS-12 (0-2')	Moisture	T	3.06 g	23.57 g	20.50 g			
600-60819-A-11	2012-FWCS-11 (0-2')	Moisture	T	3.06 g	20.14 g	17.97 g			

Batch Notes	
Balance ID	b-2 No Unit

Basis	Basis Description
T	Total/NA

TestAmerica Houston
6310 Rotttway Circuit
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/27/2012

Client Information	Sampler: E. Pastor	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-9060.1
Client Contact: Mr. ~~Tim Nickels~~ Eric Pastor	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page of
Company: Pastor, Behling & Wheeler LLC				Job #:

Analysis Requested

Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:
City: Round Rock	TAT Requested (days):
State, Zip: TX, 78664	
Phone: 512-671-3434(Tel) 512-671-3446(Fax)	PO #: 1755
Email: ~~tim.nickels@pbwllc.com~~ eric.pastor@pbwllc.com	WO #:
Project Name: ~~R&I Oil~~ Exide Recycling center	Project #: 60002002
Site: ~~San Antonio~~ Frisco	SSOW#:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cd and Pb- 6010B	TPH- TX1005	Pb- 6010B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
2012-FWFS-9 (Floor)	9/4/12	1102		soil			X	X			Hold TX1006
2012-FWFS-9 (Wall)		1106		soil							
2012-FWFS-8 (Floor)		1117		soil							
2012-FWFS-8 (Wall)		1121		soil							
2012-FWFS-7 (Floor)		1129		soil							
2012-FWFS-7 (Wall)		1132		soil							
2012-FWFS-6 (Floor)		1144		soil							
2012-FWFS-6 (Wall)		1150		soil							
				soil							
				soil							
				soil							

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Robert McClure	Date/Time: 9/4/12, 1735	Company: PBW	Received by: [signature]	Date/Time: 9/5/12 900	Company: [signature]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/27/2012

Client Information	Sampler: E. Pastor	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-9060.1
Client Contact: ~~Mr. Tim Nickels~~ Eric Pastor	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page of
Company: Pastor, Behling & Wheeler LLC				Job #:
Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:			
City: Round Rock	TAT Requested (days):			
State, Zip: TX, 78664				
Phone: 512-671-3434(Tel) 512-671-3446(Fax)	PO #: 1755			
Email: ~~tim.nickels@pbwllc.com~~ eric.pastor@pbwllc.com	WO #:			
Project Name: ~~R&I Oil~~ Exide Recycling Center	Project #: 60002002			
Site: ~~San Antonio~~ Frisco	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - Di Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cd and Pb- 6010B	TPH- TX1005	Pb- 6010B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
2012-FWCS-1(2-2.5')	9/4/12	1418		soil					X		
2012-FWCS-12(0-2')		1541		soil					X		
2012-FWCS-11(0-2')		1555		soil					X		
2012-FWCS-10(0-2')		1605		soil					X		Hold
2012-FWCS-EB		1640		~~W~~ soil					X		
				soil							
				soil							
				soil							
				soil							
				soil							
				soil							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Robert M Clem	9/4/12, 1735	PBW	Dana Caffey	9/5/12 900	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-60819-1

Login Number: 60819

List Source: TestAmerica Houston

List Number: 1

Creator: Capps, Dana

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-61851-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
10/16/2012 11:57:00 AM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 12
Method Summary 13
Sample Summary 14
Client Sample Results 15
Definitions/Glossary 17
Surrogate Summary 18
QC Sample Results 19
Default Detection Limits 21
QC Association Summary 22
Lab Chronicle 24
Certification Summary 25
Raw Data 26
Chain of Custody 386
Receipt Checklists 387

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-61851-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		10/16/2012
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 10/09/12
Project Name: Exide-Recycling Center, Frisco TX	Laboratory Job Number: 600-61851
Reviewer Name: TWR	Prep Batch Number(s): 600-89798- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 10/09/12
Project Name: Exide-Recycling Center, Frisco TX	Laboratory Job Number: 600-61851
Reviewer Name: TWR	Prep Batch Number(s): 600-89798- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 10/09/12
Project Name: Exide-Recycling Center, Frisco TX	Laboratory Job Number: 600-61851
Reviewer Name: TWR	Prep Batch Number(s): 600-89798- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 61851-4 MS and MSD were outside acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 61851-4 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
3	The lead RPD between samples 61851-4 and 61851-4 MD was above acceptance limits due to the non-homogenous nature of the samples.
4	The lead SDL was elevated in samples 61851-2 due to the dilution necessary to bring this analyte to within linear dynamic range.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/27/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-61851-1
Reviewer Name: RJV	Prep Batch Number(s): 600-89599- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 09/27/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-61851-1
Reviewer Name: RJV	Prep Batch Number(s): 600-89599- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 09/27/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-61851-1
Reviewer Name: RJV	Prep Batch Number(s): 600-89599- TX1005

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	7/11/2012
Date Prepared:	7/11/2012
Data File:	600-83523/17-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	20	25	5
>C12-C28	4.06	20	19.17	5
Total C6-C35	7.48	40	44.17	5

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	9/27/2012
Date Prepared:	9/26/2012
Instrument:	Thermo 6500
TALS Batches:	89675, 89637p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.655	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.505	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.685	20
Cadmium	0.025642	0.05	0.05	0.25
Calcium	0.86399	1.5	3.185	100
Chromium	0.050606	0.1	0.095	0.5
Cobalt	0.067622	0.1	0.095	0.5
Copper	0.173703	0.5	0.55	0.5
Iron	2.534007	4	4.105	20
Lead	0.104832	0.2	0.27	0.5
Selenium	0.258884	0.5	0.595	2
Manganese	0.038111	0.05	0.055	1.5
Molybdenum	0.136448	0.35	0.36	0.5
Nickel	0.116599	0.15	0.155	1
Silver	0.118848	0.2	0.165	0.5
Sodium	0.885548	2.4	2.045	100
Strontium	0.00252	0.005	0.97	0.25
Thallium	0.276988	0.7	0.835	1.5
Tin	0.08729	0.15	0.17	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.145	0.5
Zinc	0.108432	0.2	0.34	1.5

Job ID: 600-61851-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-61851-1

Comments
No additional comments.

Receipt
The samples were received on 9/25/2012 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.4º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-61851-4 DU), (600-61851-4 MS), (600-61851-4 MSD), 2012-FWFS-4 (Wall) (600-61851-4).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-61851-1

Method	Method Description	Protocol	Laboratory
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-61851-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-61851-1	2012-FWFS-5 (Floor)	Solid	09/24/12 10:40	09/25/12 08:50
600-61851-2	2012-FWFS-5 (Wall)	Solid	09/24/12 10:49	09/25/12 08:50
600-61851-3	2012-FWFS-4 (Floor)	Solid	09/24/12 10:57	09/25/12 08:50
600-61851-4	2012-FWFS-4 (Wall)	Solid	09/24/12 11:02	09/25/12 08:50

Client Sample ID: 2012-FWFS-5 (Floor)

Lab Sample ID: 600-61851-1

Date Collected: 09/24/12 10:40
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 74.6

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.09	U	33.5	5.09	mg/Kg	☼	09/26/12 12:15	09/26/12 19:32	1
>C12-C28	5.44	U	33.5	5.44	mg/Kg	☼	09/26/12 12:15	09/26/12 19:32	1
>C28-C35	5.44	U	33.5	5.44	mg/Kg	☼	09/26/12 12:15	09/26/12 19:32	1
C6-C35	10.0	U	33.5	10.0	mg/Kg	☼	09/26/12 12:15	09/26/12 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*70 - 130*	*09/26/12 12:15*	*09/26/12 19:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**1.42**		0.329	0.0337	mg/Kg	☼	09/28/12 10:05	10/01/12 10:55	1
Lead	**358**		0.657	0.138	mg/Kg	☼	09/28/12 10:05	10/01/12 10:55	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25**		1.0	1.0	%			09/25/12 11:56	1
Percent Solids	**75**		1.0	1.0	%			09/25/12 11:56	1

Client Sample ID: 2012-FWFS-5 (Wall)

Lab Sample ID: 600-61851-2

Date Collected: 09/24/12 10:49
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 78.0

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.85	U	31.9	4.85	mg/Kg	☼	09/26/12 12:15	09/26/12 20:04	1
>C12-C28	5.18	U	31.9	5.18	mg/Kg	☼	09/26/12 12:15	09/26/12 20:04	1
>C28-C35	5.18	U	31.9	5.18	mg/Kg	☼	09/26/12 12:15	09/26/12 20:04	1
C6-C35	9.54	U	31.9	9.54	mg/Kg	☼	09/26/12 12:15	09/26/12 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*70 - 130*	*09/26/12 12:15*	*09/26/12 20:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**273**		0.308	0.0316	mg/Kg	☼	09/28/12 10:05	10/01/12 10:59	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**52000**		12.3	2.58	mg/Kg	☼	09/28/12 10:05	10/01/12 13:24	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22**		1.0	1.0	%			09/25/12 11:56	1
Percent Solids	**78**		1.0	1.0	%			09/25/12 11:56	1

Client Sample ID: 2012-FWFS-4 (Floor)

Lab Sample ID: 600-61851-3

Date Collected: 09/24/12 10:57
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 75.9

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.99	U	32.8	4.99	mg/Kg	☼	09/26/12 12:15	09/26/12 20:37	1
>C12-C28	5.33	U	32.8	5.33	mg/Kg	☼	09/26/12 12:15	09/26/12 20:37	1

Client Sample ID: 2012-FWFS-4 (Floor)

Lab Sample ID: 600-61851-3

Date Collected: 09/24/12 10:57
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 75.9

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	5.33	U	32.8	5.33	mg/Kg	☼	09/26/12 12:15	09/26/12 20:37	1
C6-C35	9.82	U	32.8	9.82	mg/Kg	☼	09/26/12 12:15	09/26/12 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*70 - 130*	*09/26/12 12:15*	*09/26/12 20:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**3.98**		0.323	0.0331	mg/Kg	☼	09/28/12 10:05	10/01/12 11:03	1
Lead	**504**		0.646	0.135	mg/Kg	☼	09/28/12 10:05	10/01/12 11:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24**		1.0	1.0	%			09/25/12 11:56	1
Percent Solids	**76**		1.0	1.0	%			09/25/12 11:56	1

Client Sample ID: 2012-FWFS-4 (Wall)

Lab Sample ID: 600-61851-4

Date Collected: 09/24/12 11:02
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 81.2

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.67	U	30.7	4.67	mg/Kg	☼	09/26/12 12:15	09/26/12 21:10	1
>C12-C28	4.99	U	30.7	4.99	mg/Kg	☼	09/26/12 12:15	09/26/12 21:10	1
>C28-C35	4.99	U	30.7	4.99	mg/Kg	☼	09/26/12 12:15	09/26/12 21:10	1
C6-C35	9.20	U	30.7	9.20	mg/Kg	☼	09/26/12 12:15	09/26/12 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*70 - 130*	*09/26/12 12:15*	*09/26/12 21:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.471**		0.302	0.0309	mg/Kg	☼	09/28/12 10:05	09/28/12 14:23	1
Lead	**46.6**		0.603	0.127	mg/Kg	☼	09/28/12 10:05	09/28/12 14:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19**		1.0	1.0	%			09/25/12 11:56	1
Percent Solids	**81**		1.0	1.0	%			09/25/12 11:56	1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-61851-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		OTPH							
Lab Sample ID	Client Sample ID	(70-130)							
600-61851-1	2012-FWFS-5 (Floor)	88							
600-61851-2	2012-FWFS-5 (Wall)	92							
600-61851-3	2012-FWFS-4 (Floor)	86							
600-61851-4	2012-FWFS-4 (Wall)	87							
LCS 600-89599/2-A	Lab Control Sample	81							
MB 600-89599/1-A	Method Blank	86							

Surrogate Legend

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-89599/1-A
Matrix: Solid
Analysis Batch: 89617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89599

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	25.0	3.80	mg/Kg		09/26/12 12:15	09/26/12 18:26	1
>C12-C28	4.06	U	25.0	4.06	mg/Kg		09/26/12 12:15	09/26/12 18:26	1
>C28-C35	4.06	U	25.0	4.06	mg/Kg		09/26/12 12:15	09/26/12 18:26	1
C6-C35	7.48	U	25.0	7.48	mg/Kg		09/26/12 12:15	09/26/12 18:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*70 - 130*	*09/26/12 12:15*	*09/26/12 18:26*	*1*

Lab Sample ID: LCS 600-89599/2-A
Matrix: Solid
Analysis Batch: 89617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	250	206.1		mg/Kg		82	75 - 125
>C12-C28	250	213.5		mg/Kg		85	75 - 125
C6-C35	500	419.6		mg/Kg		84	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*81*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-89798/1-A
Matrix: Solid
Analysis Batch: 89809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89798

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		09/28/12 10:05	09/28/12 14:16	1
Lead	0.105	U	0.500	0.105	mg/Kg		09/28/12 10:05	09/28/12 14:16	1

Lab Sample ID: MB 600-89798/1-A
Matrix: Solid
Analysis Batch: 89930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89798

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		09/28/12 10:05	10/01/12 10:47	1
Lead	0.105	U	0.500	0.105	mg/Kg		09/28/12 10:05	10/01/12 10:47	1

Lab Sample ID: LCS 600-89798/2-A
Matrix: Solid
Analysis Batch: 89809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	71.0	65.75		mg/Kg		93	81 - 119
Lead	144	135.0		mg/Kg		94	79 - 121

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 600-89798/2-A
Matrix: Solid
Analysis Batch: 89930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	71.0	62.15		mg/Kg		88	81 - 119
Lead	144	126.8		mg/Kg		88	79 - 121

Lab Sample ID: 600-61851-4 MS
Matrix: Solid
Analysis Batch: 89809

Client Sample ID: 2012-FWFS-4 (Wall)
Prep Type: Total/NA
Prep Batch: 89798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.471		28.5	27.99		mg/Kg	☼	97	75 - 125
Lead	46.6		57.0	129.5	N	mg/Kg	☼	145	75 - 125

Lab Sample ID: 600-61851-4 MSD
Matrix: Solid
Analysis Batch: 89809

Client Sample ID: 2012-FWFS-4 (Wall)
Prep Type: Total/NA
Prep Batch: 89798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.471		29.3	26.62		mg/Kg	☼	89	75 - 125	5	20
Lead	46.6		58.6	74.69	N	mg/Kg	☼	48	75 - 125	54	20

Lab Sample ID: 600-61851-4 DU
Matrix: Solid
Analysis Batch: 89809

Client Sample ID: 2012-FWFS-4 (Wall)
Prep Type: Total/NA
Prep Batch: 89798

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.471		0.4338		mg/Kg	☼	8	20
Lead	46.6		27.07	F	mg/Kg	☼	53	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 600-89452/19
Matrix: Solid
Analysis Batch: 89452

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	100		1.0	1.0	%			09/25/12 12:08	1
Percent Solids	-0.0954		1.0	1.0	%			09/25/12 12:08	1

Lab Sample ID: 600-61851-4 DU
Matrix: Solid
Analysis Batch: 89452

Client Sample ID: 2012-FWFS-4 (Wall)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	19		19.3		%		3	
Percent Solids	81		80.7		%		0.6	

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-61851-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	25.0	4.06	mg/Kg	TX 1005
>C28-C35	25.0	4.06	mg/Kg	TX 1005
C6-C12	25.0	3.80	mg/Kg	TX 1005
C6-C35	25.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC Semi VOA

Prep Batch: 89599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-1	2012-FWFS-5 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-61851-2	2012-FWFS-5 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
600-61851-3	2012-FWFS-4 (Floor)	Total/NA	Solid	TX_1005_S_Prep	
600-61851-4	2012-FWFS-4 (Wall)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-89599/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-89599/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 89617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-1	2012-FWFS-5 (Floor)	Total/NA	Solid	TX 1005	89599
600-61851-2	2012-FWFS-5 (Wall)	Total/NA	Solid	TX 1005	89599
600-61851-3	2012-FWFS-4 (Floor)	Total/NA	Solid	TX 1005	89599
600-61851-4	2012-FWFS-4 (Wall)	Total/NA	Solid	TX 1005	89599
LCS 600-89599/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	89599
MB 600-89599/1-A	Method Blank	Total/NA	Solid	TX 1005	89599

Metals

Prep Batch: 89798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-1	2012-FWFS-5 (Floor)	Total/NA	Solid	3050B	
600-61851-2	2012-FWFS-5 (Wall)	Total/NA	Solid	3050B	
600-61851-2 - DL	2012-FWFS-5 (Wall)	Total/NA	Solid	3050B	
600-61851-3	2012-FWFS-4 (Floor)	Total/NA	Solid	3050B	
600-61851-4	2012-FWFS-4 (Wall)	Total/NA	Solid	3050B	
600-61851-4 DU	2012-FWFS-4 (Wall)	Total/NA	Solid	3050B	
600-61851-4 MS	2012-FWFS-4 (Wall)	Total/NA	Solid	3050B	
600-61851-4 MSD	2012-FWFS-4 (Wall)	Total/NA	Solid	3050B	
LCS 600-89798/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-89798/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 89809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-4	2012-FWFS-4 (Wall)	Total/NA	Solid	6010B	89798
600-61851-4 DU	2012-FWFS-4 (Wall)	Total/NA	Solid	6010B	89798
600-61851-4 MS	2012-FWFS-4 (Wall)	Total/NA	Solid	6010B	89798
600-61851-4 MSD	2012-FWFS-4 (Wall)	Total/NA	Solid	6010B	89798
LCS 600-89798/2-A	Lab Control Sample	Total/NA	Solid	6010B	89798
MB 600-89798/1-A	Method Blank	Total/NA	Solid	6010B	89798

Analysis Batch: 89930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-1	2012-FWFS-5 (Floor)	Total/NA	Solid	6010B	89798
600-61851-2	2012-FWFS-5 (Wall)	Total/NA	Solid	6010B	89798
600-61851-2 - DL	2012-FWFS-5 (Wall)	Total/NA	Solid	6010B	89798
600-61851-3	2012-FWFS-4 (Floor)	Total/NA	Solid	6010B	89798
LCS 600-89798/2-A	Lab Control Sample	Total/NA	Solid	6010B	89798

Metals (Continued)

Analysis Batch: 89930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-89798/1-A	Method Blank	Total/NA	Solid	6010B	89798

General Chemistry

Analysis Batch: 89452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-61851-1	2012-FWFS-5 (Floor)	Total/NA	Solid	Moisture	
600-61851-2	2012-FWFS-5 (Wall)	Total/NA	Solid	Moisture	
600-61851-3	2012-FWFS-4 (Floor)	Total/NA	Solid	Moisture	
600-61851-4	2012-FWFS-4 (Wall)	Total/NA	Solid	Moisture	
600-61851-4 DU	2012-FWFS-4 (Wall)	Total/NA	Solid	Moisture	
MB 600-89452/19	Method Blank	Total/NA	Solid	Moisture	

Client Sample ID: 2012-FWFS-5 (Floor)

Lab Sample ID: 600-61851-1

Date Collected: 09/24/12 10:40
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			89599	09/26/12 12:15	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	89617	09/26/12 19:32	RV	TAL HOU
Total/NA	Prep	3050B			89798	09/28/12 10:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	89930	10/01/12 10:55	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	89452	09/25/12 11:56	KRD	TAL HOU

Client Sample ID: 2012-FWFS-5 (Wall)

Lab Sample ID: 600-61851-2

Date Collected: 09/24/12 10:49
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			89599	09/26/12 12:15	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	89617	09/26/12 20:04	RV	TAL HOU
Total/NA	Prep	3050B			89798	09/28/12 10:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	89930	10/01/12 10:59	DCL	TAL HOU
Total/NA	Prep	3050B	DL		89798	09/28/12 10:05	NER	TAL HOU
Total/NA	Analysis	6010B	DL	20	89930	10/01/12 13:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	89452	09/25/12 11:56	KRD	TAL HOU

Client Sample ID: 2012-FWFS-4 (Floor)

Lab Sample ID: 600-61851-3

Date Collected: 09/24/12 10:57
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			89599	09/26/12 12:15	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	89617	09/26/12 20:37	RV	TAL HOU
Total/NA	Prep	3050B			89798	09/28/12 10:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	89930	10/01/12 11:03	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	89452	09/25/12 11:56	KRD	TAL HOU

Client Sample ID: 2012-FWFS-4 (Wall)

Lab Sample ID: 600-61851-4

Date Collected: 09/24/12 11:02
Matrix: Solid
Date Received: 09/25/12 08:50
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			89599	09/26/12 12:15	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	89617	09/26/12 21:10	RV	TAL HOU
Total/NA	Prep	3050B			89798	09/28/12 10:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	89809	09/28/12 14:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	89452	09/25/12 11:56	KRD	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-61851-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAC	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAC	6	T104704223-10-6-TX	10-31-12
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAC	8	GULF	10-31-12

TX_1005

Texas - Total Petroleum Hydrocarbon (GC) by Method TX_1005

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	OTPH #
2012-FWFS-5 (Floor)	600-61851-1	88
2012-FWFS-5 (Wall)	600-61851-2	92
2012-FWFS-4 (Floor)	600-61851-3	86
2012-FWFS-4 (Wall)	600-61851-4	87
	MB 600-89599/1-A	86
	LCS 600-89599/2-A	81

	QC LIMITS
OTPH = o-Terphenyl	70-130

Column to be used to flag recovery values

FORM II TX 1005

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0926015.D

Lab ID: LCS 600-89599/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
C6-C12	250	206.1	82	75-125	
>C12-C28	250	213.5	85	75-125	
C6-C35	500	419.6	84	75-125	

Column to be used to flag recovery and RPD values

FORM III TX 1005

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab File ID: F0926014.D Lab Sample ID: MB 600-89599/1-A

Matrix: Solid Date Extracted: 09/26/2012 12:15

Instrument ID: FID12 Date Analyzed: 09/26/2012 18:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-89599/2-A	F0926015.D	09/26/2012 18:59
2012-FWFS-5 (Floor)	600-61851-1	F0926016.D	09/26/2012 19:32
2012-FWFS-5 (Wall)	600-61851-2	F0926017.D	09/26/2012 20:04
2012-FWFS-4 (Floor)	600-61851-3	F0926018.D	09/26/2012 20:37
2012-FWFS-4 (Wall)	600-61851-4	F0926019.D	09/26/2012 21:10

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Sample No.: CCVRT 600-89617/1 Date Analyzed: 09/26/2012 11:11

Instrument ID: FID12 GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): F0926002.D Heated Purge: (Y/N) N

Calibration ID: 1041

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				13.45		
UPPER LIMIT				13.55		
LOWER LIMIT				13.35		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 600-89617/1		09/26/2012 11:11	F0926002.D	13.45		
CCV 600-89617/10		09/26/2012 17:53	F0926013.D	13.45		
MB 600-89599/1-A		09/26/2012 18:26	F0926014.D	13.45		
LCS 600-89599/2-A		09/26/2012 18:59	F0926015.D	13.45		
600-61851-1	2012-FWFS-5 (Floor)	09/26/2012 19:32	F0926016.D	13.45		
600-61851-2	2012-FWFS-5 (Wall)	09/26/2012 20:04	F0926017.D	13.45		
600-61851-3	2012-FWFS-4 (Floor)	09/26/2012 20:37	F0926018.D	13.45		
600-61851-4	2012-FWFS-4 (Wall)	09/26/2012 21:10	F0926019.D	13.45		
CCV 600-89617/21		09/26/2012 23:52	F0926024.D	13.45		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII TX 1005

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: 2012-FWFS-5 (Floor) Lab Sample ID: 600-61851-1

Matrix: Solid Lab File ID: F0926016.D

Analysis Method: TX 1005 Date Collected: 09/24/2012 10:40

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.00(g) Date Analyzed: 09/26/2012 19:32

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 25.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	5.09	U	33.5	5.09
STL00035	>C12-C28	5.44	U	33.5	5.44
STL00147	>C28-C35	5.44	U	33.5	5.44
STL00006	C6-C35	10.0	U	33.5	10.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926016.D
Lab Smp Id: 600-61851-a-1-a
Inj Date : 26-SEP-2012 19:32
Operator : RJV Inst ID: FID-12.i
Smp Info : 600-61851-a-1-a
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

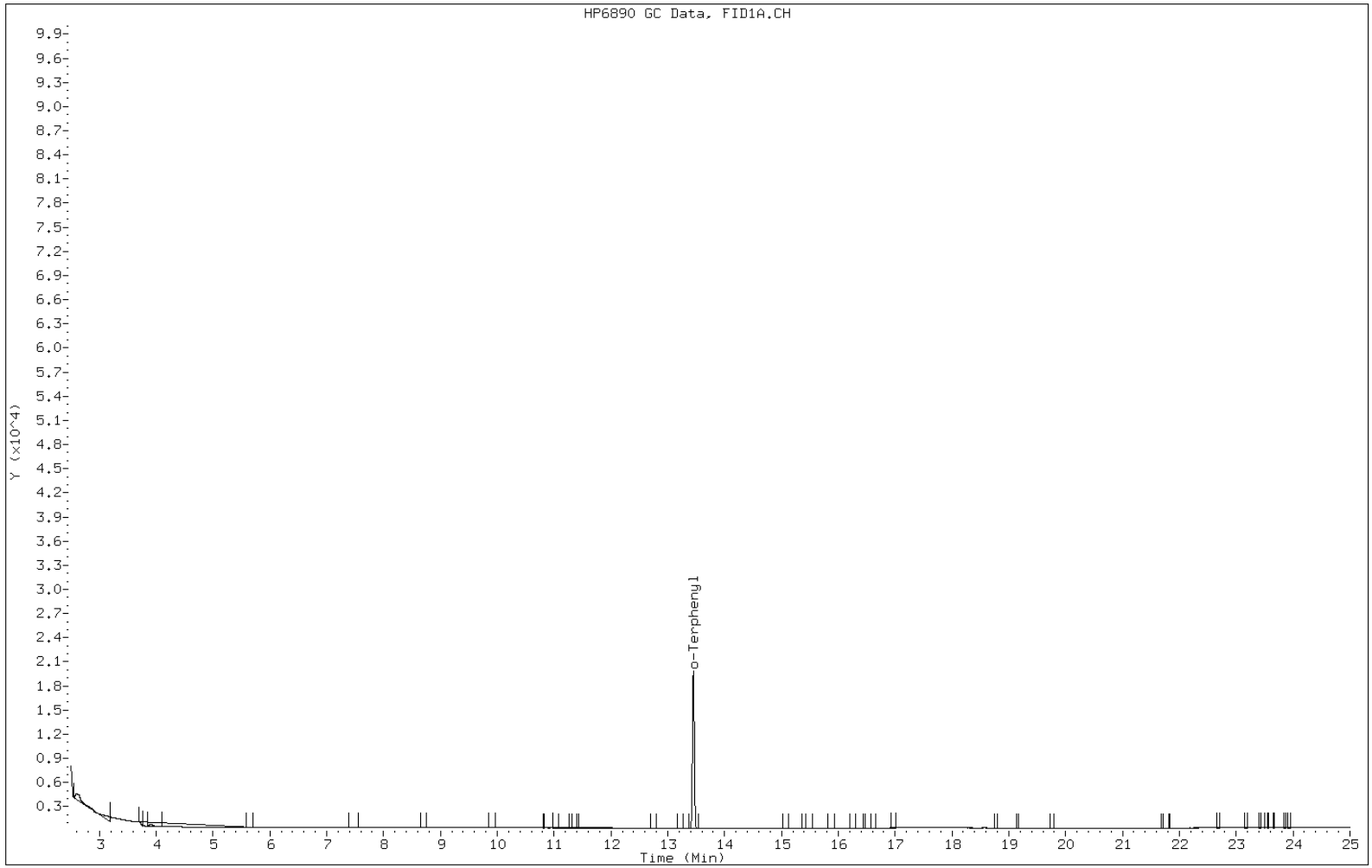
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (mg/Kg)
$ 4 o-Terphenyl	13.450	13.448	0.002	44116	11.0434	11.04

Data File: F0926016.D

Date: 26-SEP-2012 19:32

Client ID: Instrument: FID-12.i

Sample Info: 600-61851-a-1-a Operator: RJV



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: 2012-FWFS-5 (Wall) Lab Sample ID: 600-61851-2

Matrix: Solid Lab File ID: F0926017.D

Analysis Method: TX 1005 Date Collected: 09/24/2012 10:49

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.05(g) Date Analyzed: 09/26/2012 20:04

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 22.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.85	U	31.9	4.85
STL00035	>C12-C28	5.18	U	31.9	5.18
STL00147	>C28-C35	5.18	U	31.9	5.18
STL00006	C6-C35	9.54	U	31.9	9.54

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926017.D
Lab Smp Id: 600-61851-a-2-a
Inj Date : 26-SEP-2012 20:04
Operator : RJV Inst ID: FID-12.i
Smp Info : 600-61851-a-2-a
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

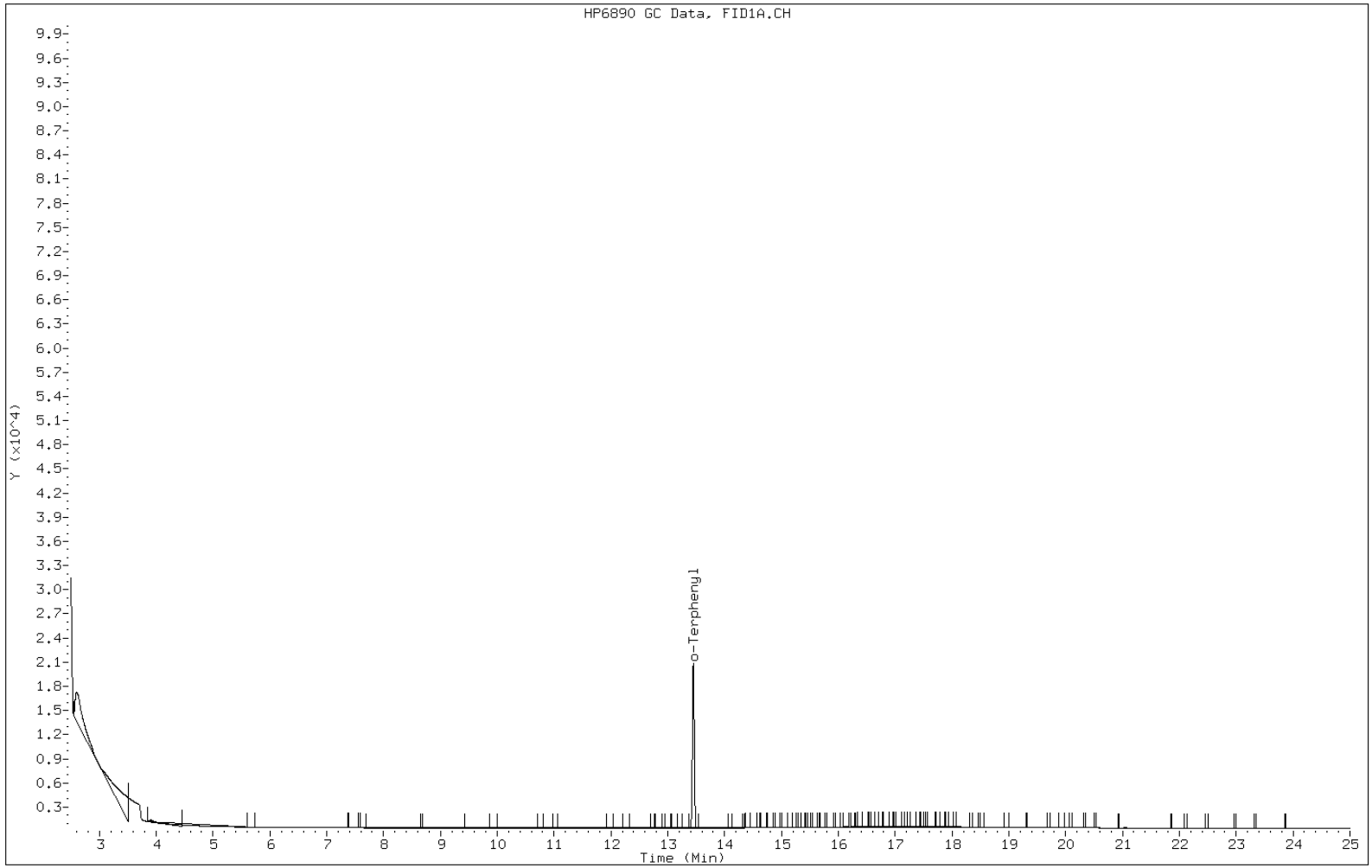
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (mg/Kg)
$ 4 o-Terphenyl	13.449	13.448	0.001	46028	11.5220	11.52

Data File: F0926017.D

Date: 26-SEP-2012 20:04

Client ID: Instrument: FID-12.i

Sample Info: 600-61851-a-2-a Operator: RJV



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: 2012-FWFS-4 (Floor) Lab Sample ID: 600-61851-3

Matrix: Solid Lab File ID: F0926018.D

Analysis Method: TX 1005 Date Collected: 09/24/2012 10:57

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.04(g) Date Analyzed: 09/26/2012 20:37

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 24.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.99	U	32.8	4.99
STL00035	>C12-C28	5.33	U	32.8	5.33
STL00147	>C28-C35	5.33	U	32.8	5.33
STL00006	C6-C35	9.82	U	32.8	9.82

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926018.D
Lab Smp Id: 600-61851-a-3-a
Inj Date : 26-SEP-2012 20:37
Operator : RJV Inst ID: FID-12.i
Smp Info : 600-61851-a-3-a
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

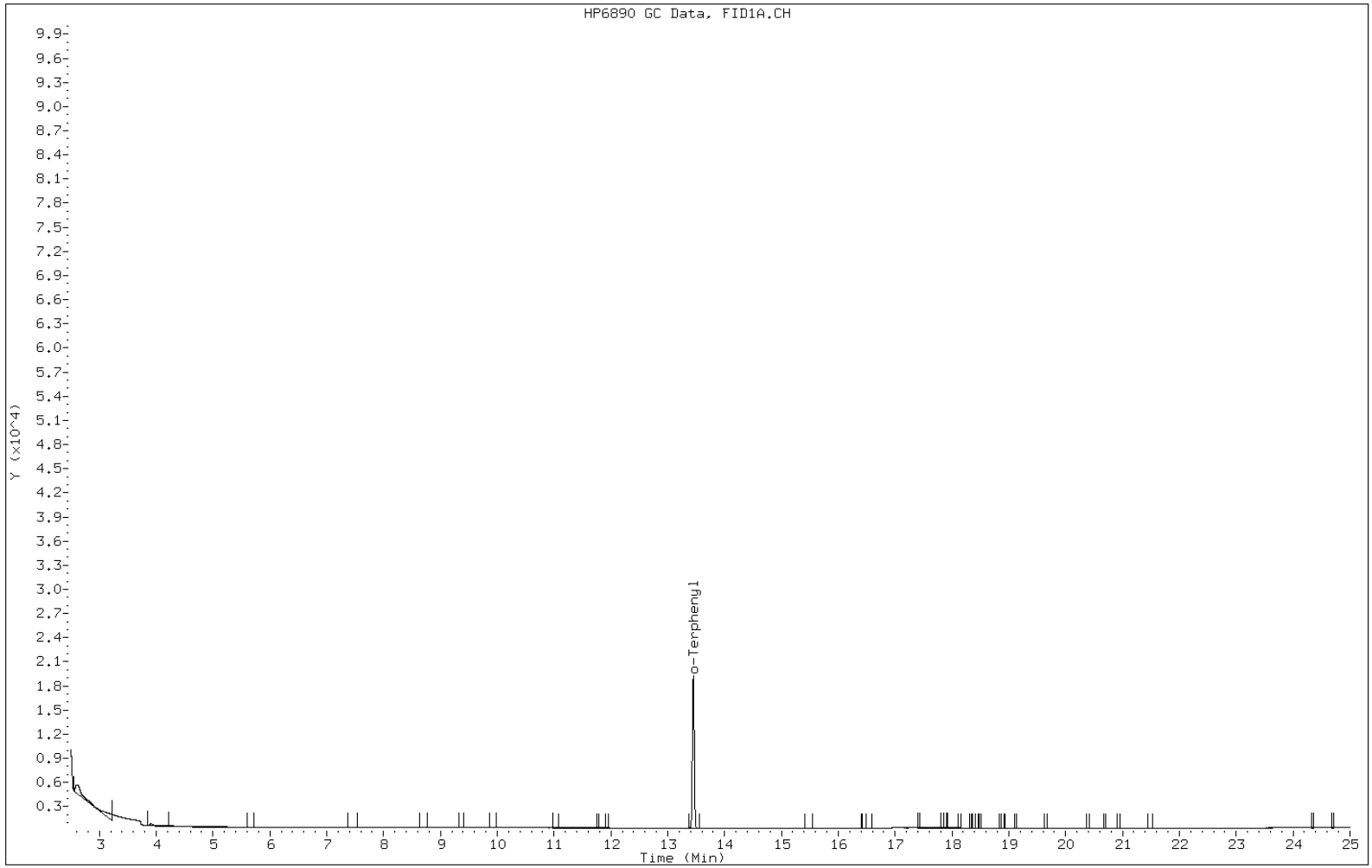
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (mg/Kg)
$ 4 o-Terphenyl	13.449	13.448	0.001	42719	10.6936	10.69

Data File: F0926018.D

Date: 26-SEP-2012 20:37

Client ID: Instrument: FID-12.i

Sample Info: 600-61851-a-3-a Operator: RJV



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: 2012-FWFS-4 (Wall) Lab Sample ID: 600-61851-4

Matrix: Solid Lab File ID: F0926019.D

Analysis Method: TX 1005 Date Collected: 09/24/2012 11:02

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.01(g) Date Analyzed: 09/26/2012 21:10

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: 18.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.67	U	30.7	4.67
STL00035	>C12-C28	4.99	U	30.7	4.99
STL00147	>C28-C35	4.99	U	30.7	4.99
STL00006	C6-C35	9.20	U	30.7	9.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926019.D
Lab Smp Id: 600-61851-a-4-a
Inj Date : 26-SEP-2012 21:10
Operator : RJV Inst ID: FID-12.i
Smp Info : 600-61851-a-4-a
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

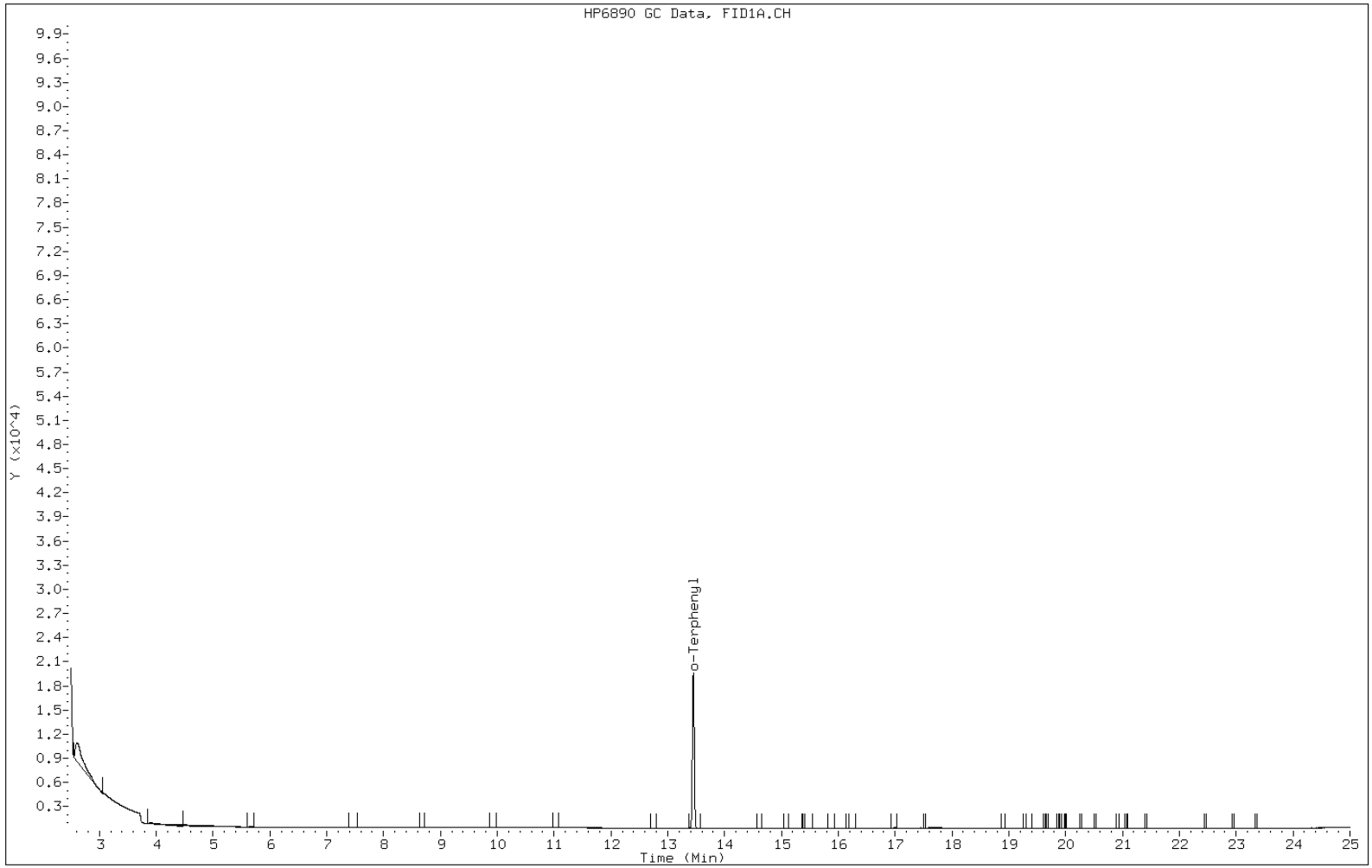
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (mg/Kg)
$ 4 o-Terphenyl	13.450	13.448	0.002	43622	10.9197	10.92

Data File: F0926019.D

Date: 26-SEP-2012 21:10

Client ID: Instrument: FID-12.i

Sample Info: 600-61851-a-4-a Operator: RJV



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-61851-1 Analy Batch No.: 77114

SDG No.:

Instrument ID: FID12 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2012 20:37 Calibration End Date: 04/10/2012 23:53 Calibration ID: 1041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-77114/1	F0410007.D
Level 2	IC 600-77114/2	F0410008.D
Level 3	IC 600-77114/3	F0410009.D
Level 4	ICRT 600-77114/4	F0410010.D
Level 5	IC 600-77114/5	F0410011.D
Level 6	IC 600-77114/6	F0410012.D
Level 7	IC 600-77114/7	F0410013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
C6-C12	5.125	5.125	5.125	5.125	5.125	5.125	5.125				3.000 - 7.250	5.125
C6-C35	11.800	11.800	11.800	11.800	11.800	11.800	11.800				3.000 - 20.600	11.800
>C12-C28	12.050	12.050	12.050	12.050	12.050	12.050	12.050				7.300 - 16.800	12.050
>C28-C35	18.800	18.800	18.800	18.800	18.800	18.800	18.800				17.000 - 20.600	18.800
o-Terphenyl	13.392	13.390	13.391	13.390	13.391	13.391	13.391				13.291 - 13.491	13.391

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-61851-1 Analy Batch No.: 77114

SDG No.:

Instrument ID: FID12 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2012 20:37 Calibration End Date: 04/10/2012 23:53 Calibration ID: 1041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-77114/1	F0410007.D
Level 2	IC 600-77114/2	F0410008.D
Level 3	IC 600-77114/3	F0410009.D
Level 4	ICRT 600-77114/4	F0410010.D
Level 5	IC 600-77114/5	F0410011.D
Level 6	IC 600-77114/6	F0410012.D
Level 7	IC 600-77114/7	F0410013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
C6-C12	1949.5 1649.7	1770.7 1731.4	1770.5 1694.3	1723.8	Ave		1755.68407				5.4		25.0			
C6-C35	8314.9 7358.0	7796.1 7884.1	8126.7 7830.1	7478.7	Ave		7826.94425				4.3		25.0			
>C12-C28	3289.2 3056.8	3125.3 3119.7	3286.1 3143.3	3072.7	Ave		3156.13836				3.0		25.0			
>C28-C35	3076.2 2651.6	2900.1 3033.0	3070.2 2992.6	2682.3	Ave		2915.12182				6.2		25.0			
o-Terphenyl	4092.8 3819.8	4048.6 4021.9	4176.8 3926.1	3877.6	Ave		3994.80171				3.2		30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-61851-1 Analy Batch No.: 77114

SDG No.:

Instrument ID: FID12 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2012 20:37 Calibration End Date: 04/10/2012 23:53 Calibration ID: 1041

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-77114/1	F0410007.D
Level 2	IC 600-77114/2	F0410008.D
Level 3	IC 600-77114/3	F0410009.D
Level 4	ICRT 600-77114/4	F0410010.D
Level 5	IC 600-77114/5	F0410011.D
Level 6	IC 600-77114/6	F0410012.D
Level 7	IC 600-77114/7	F0410013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
C6-C12	Ave	19495 1385132	88535 1694271	177046	344752	659873	10.0 800	50.0 1000	100	200	400
C6-C35	Ave	83149 6307271	389806 7830091	812668	1495749	2943194	10.0 800	50.0 1000	100	200	400
>C12-C28	Ave	32892 2495764	156267 3143251	328606	614532	1222701	10.0 800	50.0 1000	100	200	400
>C28-C35	Ave	30762 2426375	145004 2992569	307016	536465	1060620	10.0 800	50.0 1000	100	200	400
o-Terphenyl	Ave	2558 201093	12652 245382	26105	48470	95495	0.625 50.0	3.13 62.5	6.25	12.5	25.0

Curve Type Legend:

Ave = Average

TestAmerica Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410007.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 20:37
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-1
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 15-Oct-2012 12:11 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
S	1 C6-C12	3.000-7.250			19495	10.0000	11.10
S	2 Greater than C12-C28	7.300-16.800			32892	10.0000	10.42
S	3 Greater than C28-C35	17.000-20.600			30762	10.0000	10.55(M)
$	4 o-Terphenyl	13.391	13.391	0.000	2558	0.62500	0.640
S	5 Total C6-C35				83149	10.0000	32.08

QC Flag Legend

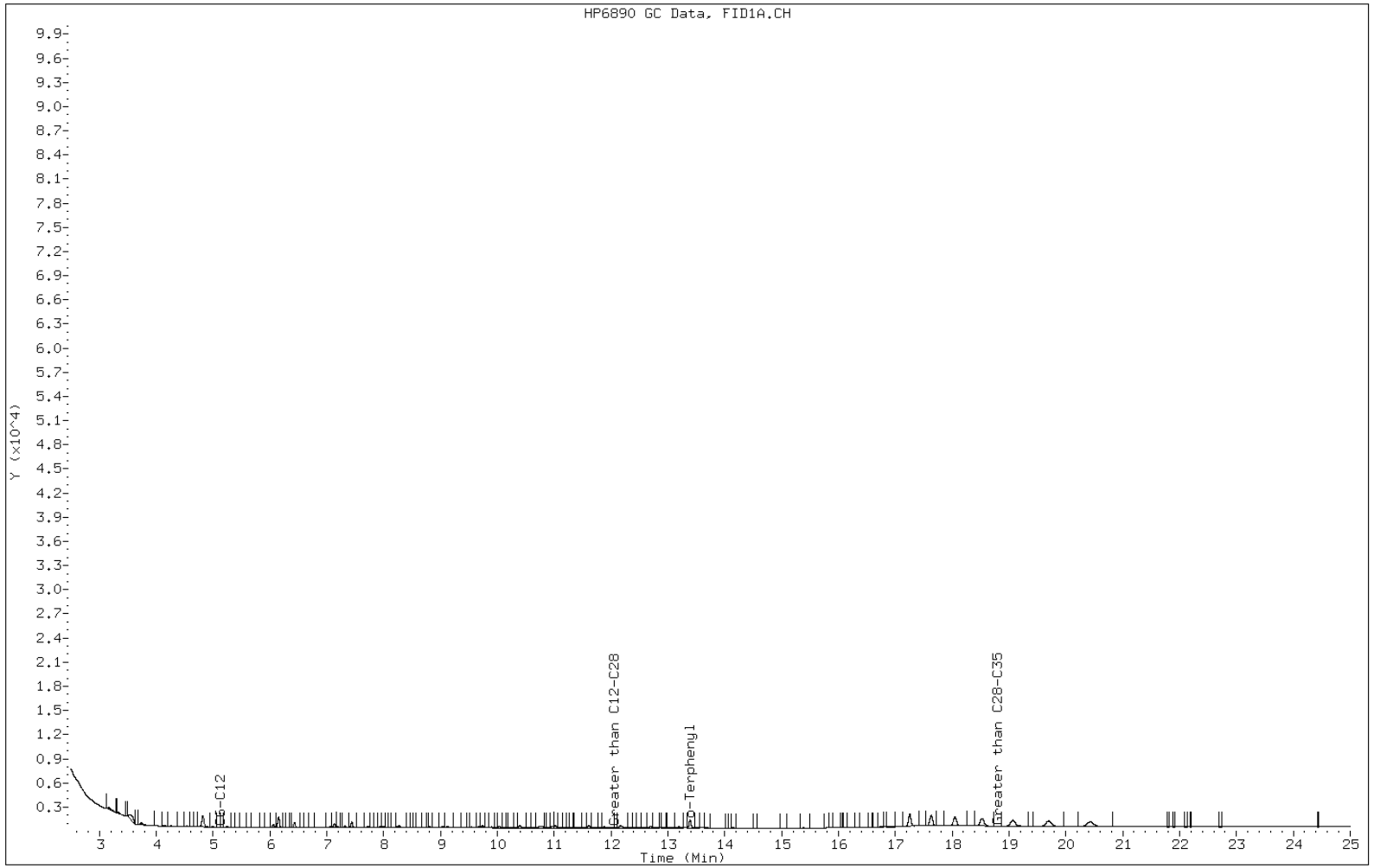
M - Compound response manually integrated.

Data File: F0410007.D

Date: 10-APR-2012 20:37

Client ID: Instrument: FID-12.i

Sample Info: IC-1 Operator: RJV



Manual Integration Report

Data File: F0410007.D
Inj. Date and Time: 10-APR-2012 20:37
Instrument ID: FID-12.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 10/15/2012

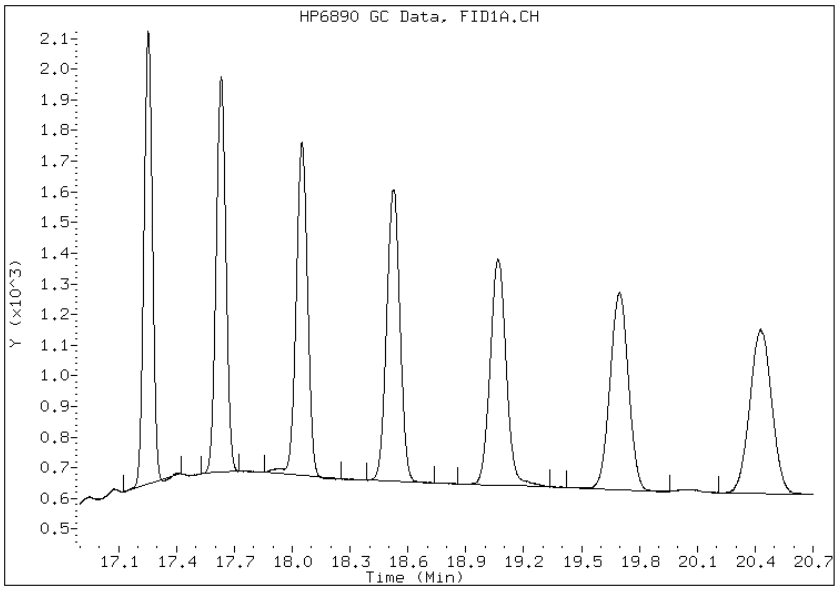
Processing Integration Results

RT: 18.80

Response: 57129

Amount: 18.45

Conc: 18.45



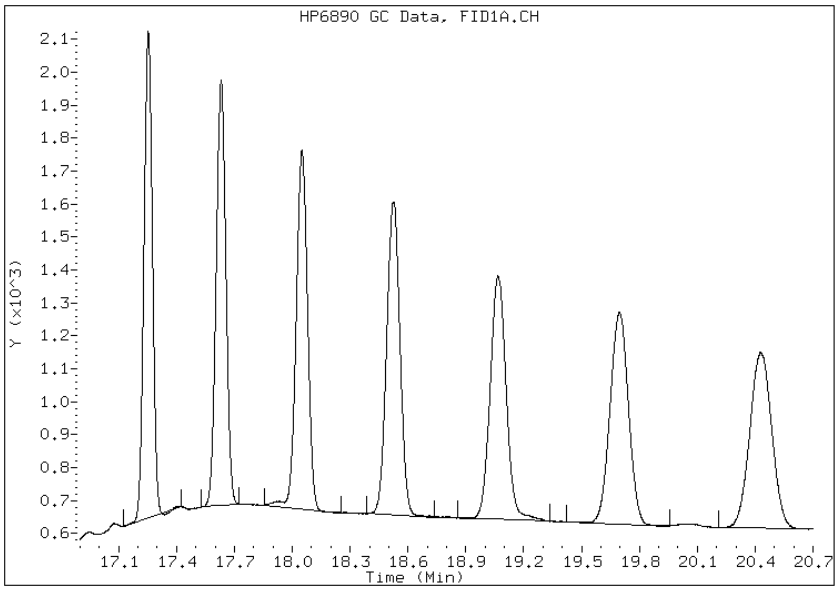
Manual Integration Results

RT: 18.80

Response: 30762

Amount: 10.55

Conc: 10.55



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410008.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 21:09
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-2
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 18-Apr-2012 13:23 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 20:37 Cal File: F0410007.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			88535	50.0000	45.41
S	2 Greater than C12-C28	7.300-16.800			156267	50.0000	47.51
S	3 Greater than C28-C35	17.000-20.600			145004	50.0000	47.14(M)
$	4 o-Terphenyl	13.389	13.391	-0.002	12652	3.12500	3.09
S	5 Total C6-C35				389806	50.0000	140.1

QC Flag Legend

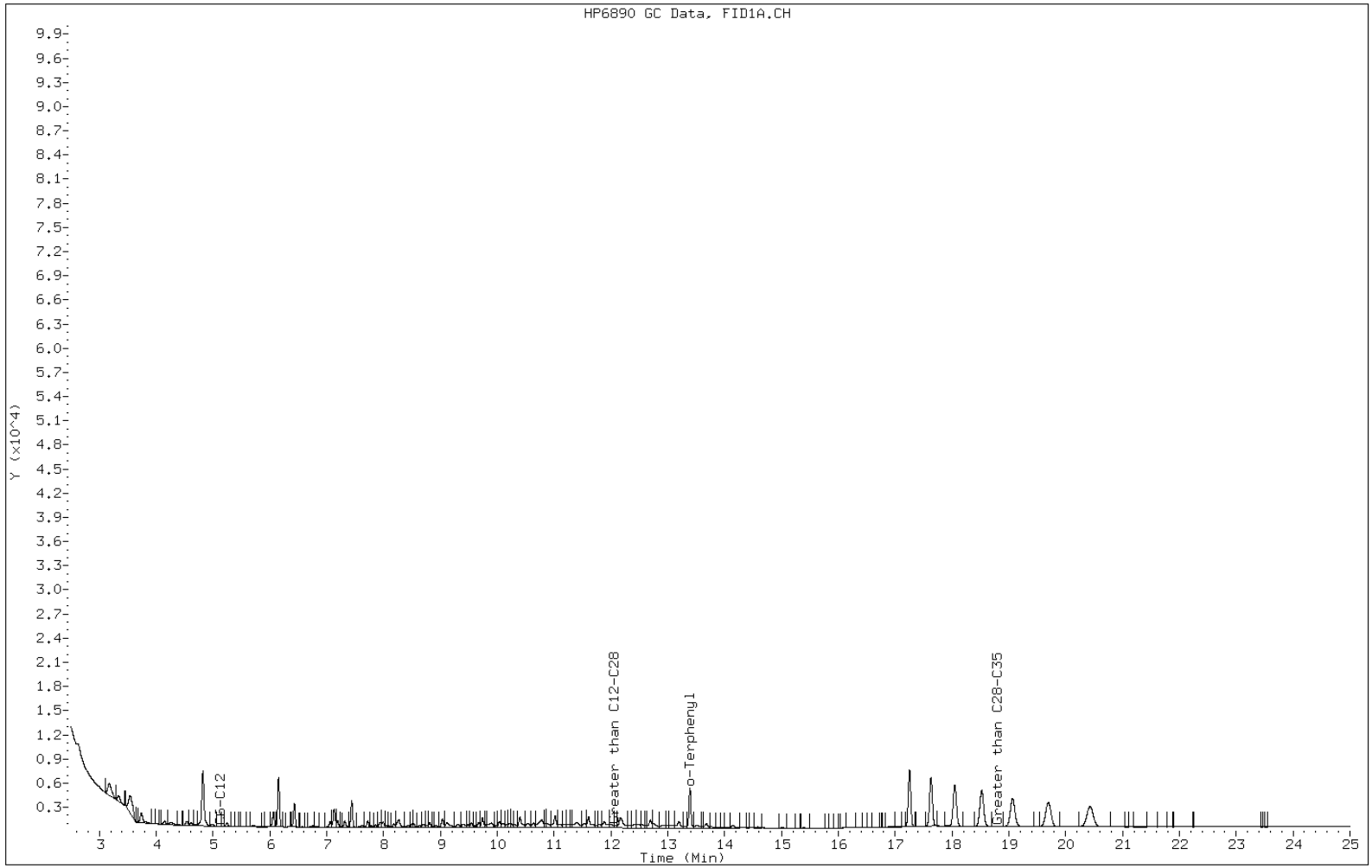
M - Compound response manually integrated.

Data File: F0410008.D

Date: 10-APR-2012 21:09

Client ID: Instrument: FID-12.i

Sample Info: IC-2 Operator: RJV



Manual Integration Report

Data File: F0410008.D
Inj. Date and Time: 10-APR-2012 21:09
Instrument ID: FID-12.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 04/20/2012

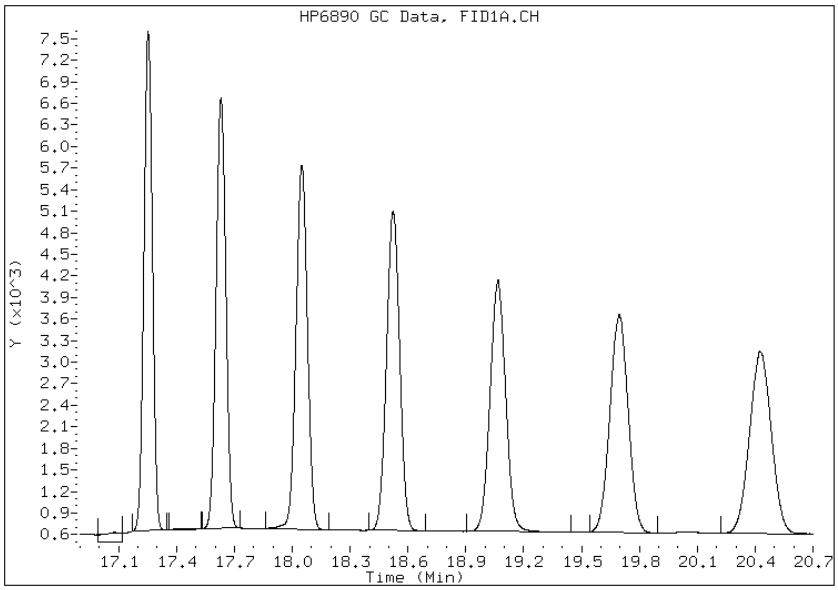
Processing Integration Results

RT: 18.80

Response: 168419

Amount: 54.38

Conc: 54.38



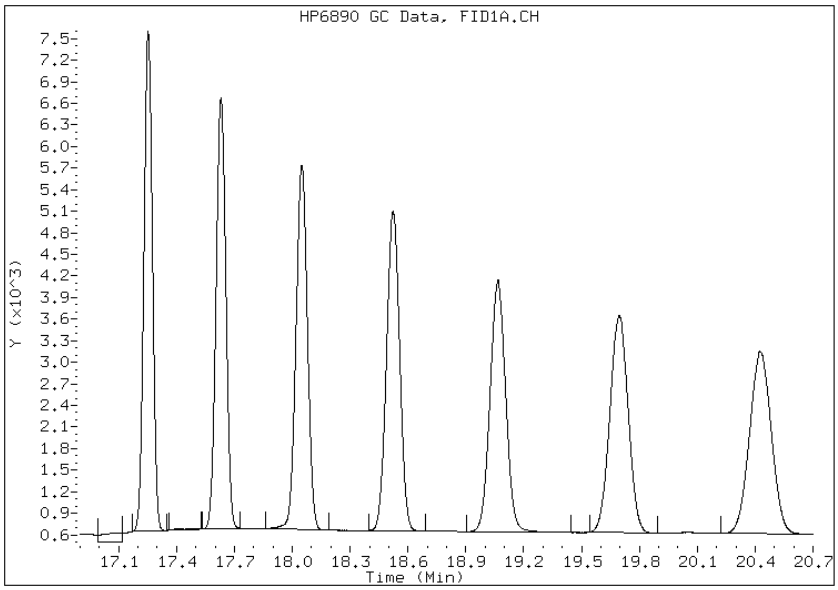
Manual Integration Results

RT: 18.80

Response: 145004

Amount: 47.14

Conc: 47.14



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410009.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 21:42
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-3
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 18-Apr-2012 13:24 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 21:09 Cal File: F0410008.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			177046	100.000	95.18
S	2 Greater than C12-C28	7.300-16.800			328606	100.000	102.5
S	3 Greater than C28-C35	17.000-20.600			307016	100.000	102.7(M)
$	4 o-Terphenyl	13.391	13.391	0.000	26105	6.25000	6.41
S	5 Total C6-C35				812668	100.000	300.4

QC Flag Legend

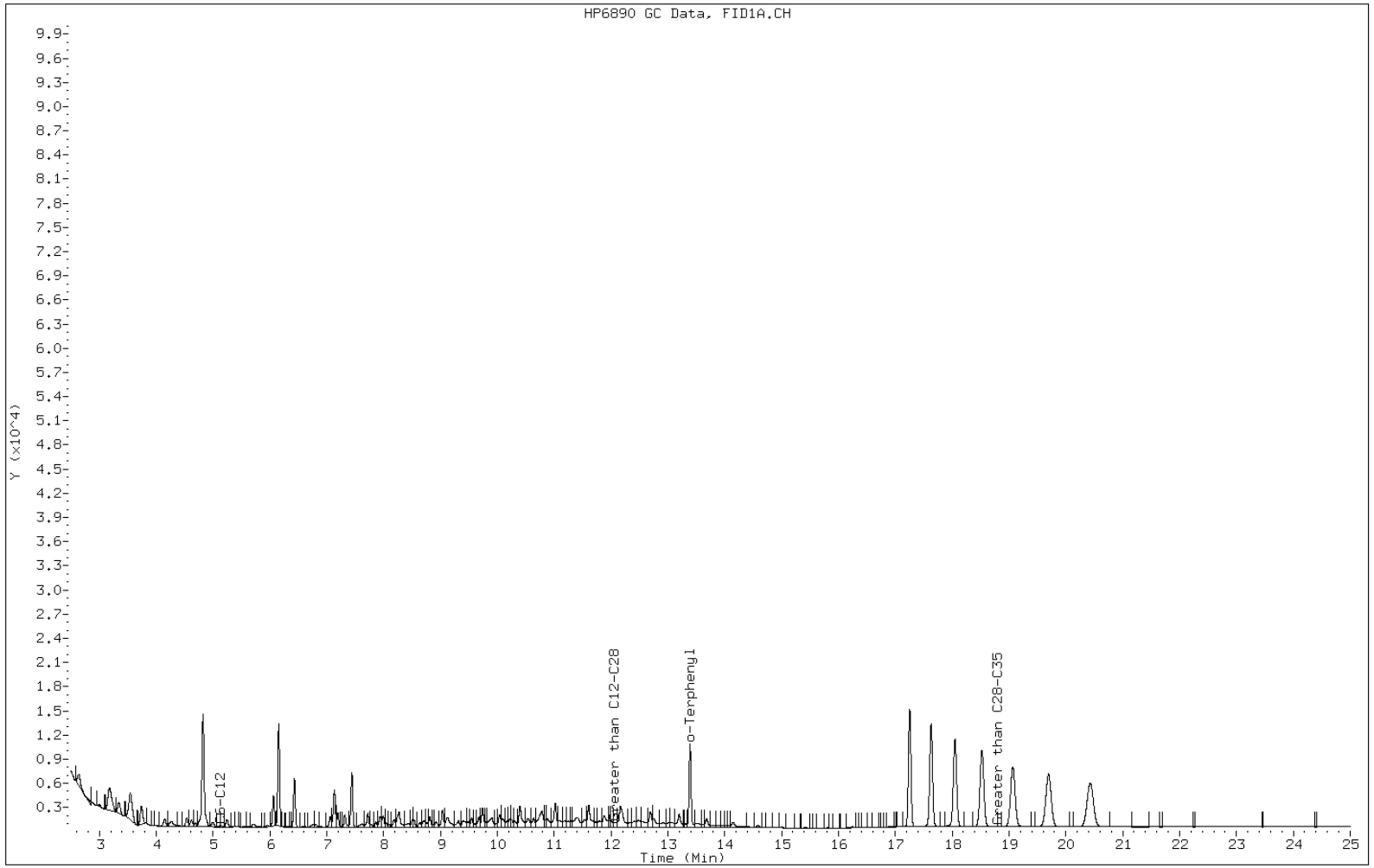
M - Compound response manually integrated.

Data File: F0410009.D

Date: 10-APR-2012 21:42

Client ID: Instrument: FID-12.i

Sample Info: IC-3 Operator: RJV



Manual Integration Report

Data File: F0410009.D
Inj. Date and Time: 10-APR-2012 21:42
Instrument ID: FID-12.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 04/20/2012

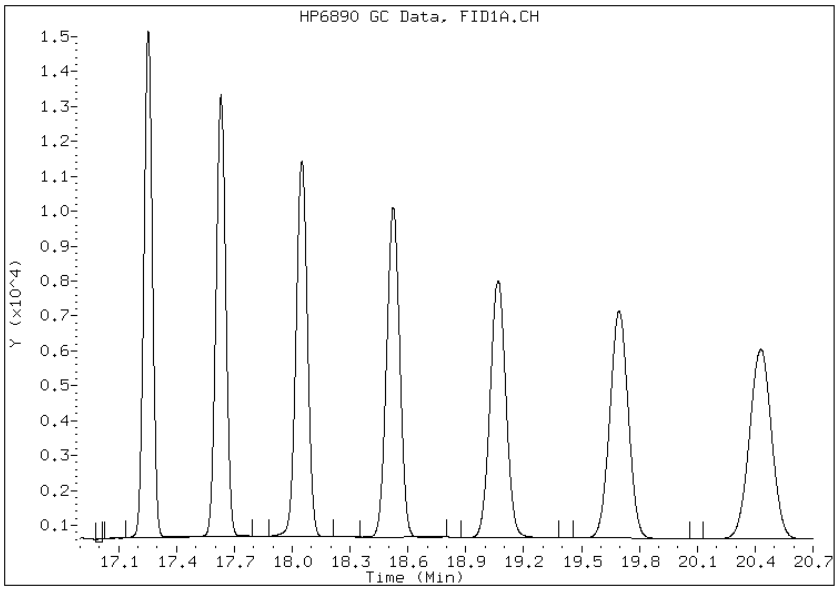
Processing Integration Results

RT: 18.80

Response: 331109

Amount: 106.91

Conc: 106.91



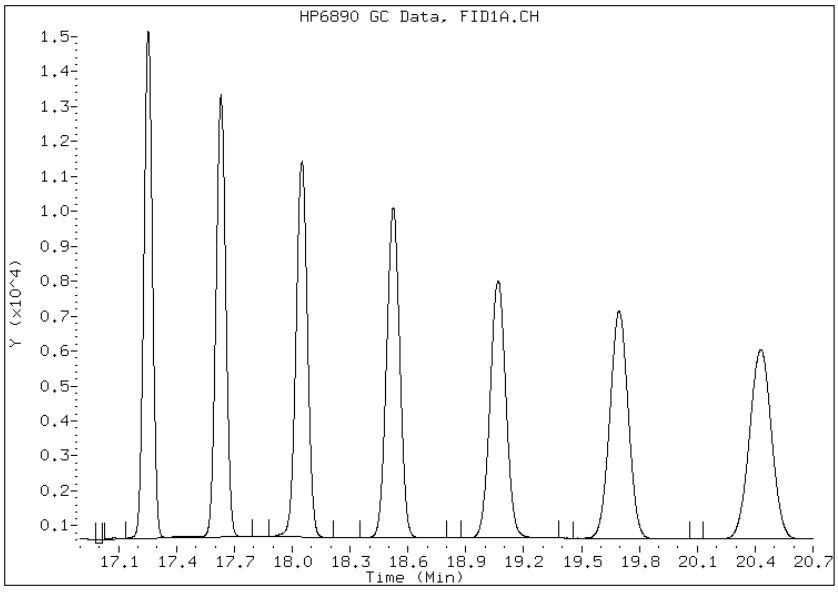
Manual Integration Results

RT: 18.80

Response: 307016

Amount: 102.74

Conc: 102.74



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410010.D
Lab Smp Id: ICRT
Inj Date : 10-APR-2012 22:14
Operator : RJV Inst ID: FID-12.i
Smp Info : ICRT
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 18-Apr-2012 13:24 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 21:42 Cal File: F0410009.D
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			344752	200.000	188.4
S	2 Greater than C12-C28	7.300-16.800			614532	200.000	190.0
S	3 Greater than C28-C35	17.000-20.600			536465	200.000	177.9(M)
$	4 o-Terphenyl	13.390	13.391	-0.001	48470	12.5000	11.80
S	5 Total C6-C35				1495749	200.000	556.3

QC Flag Legend

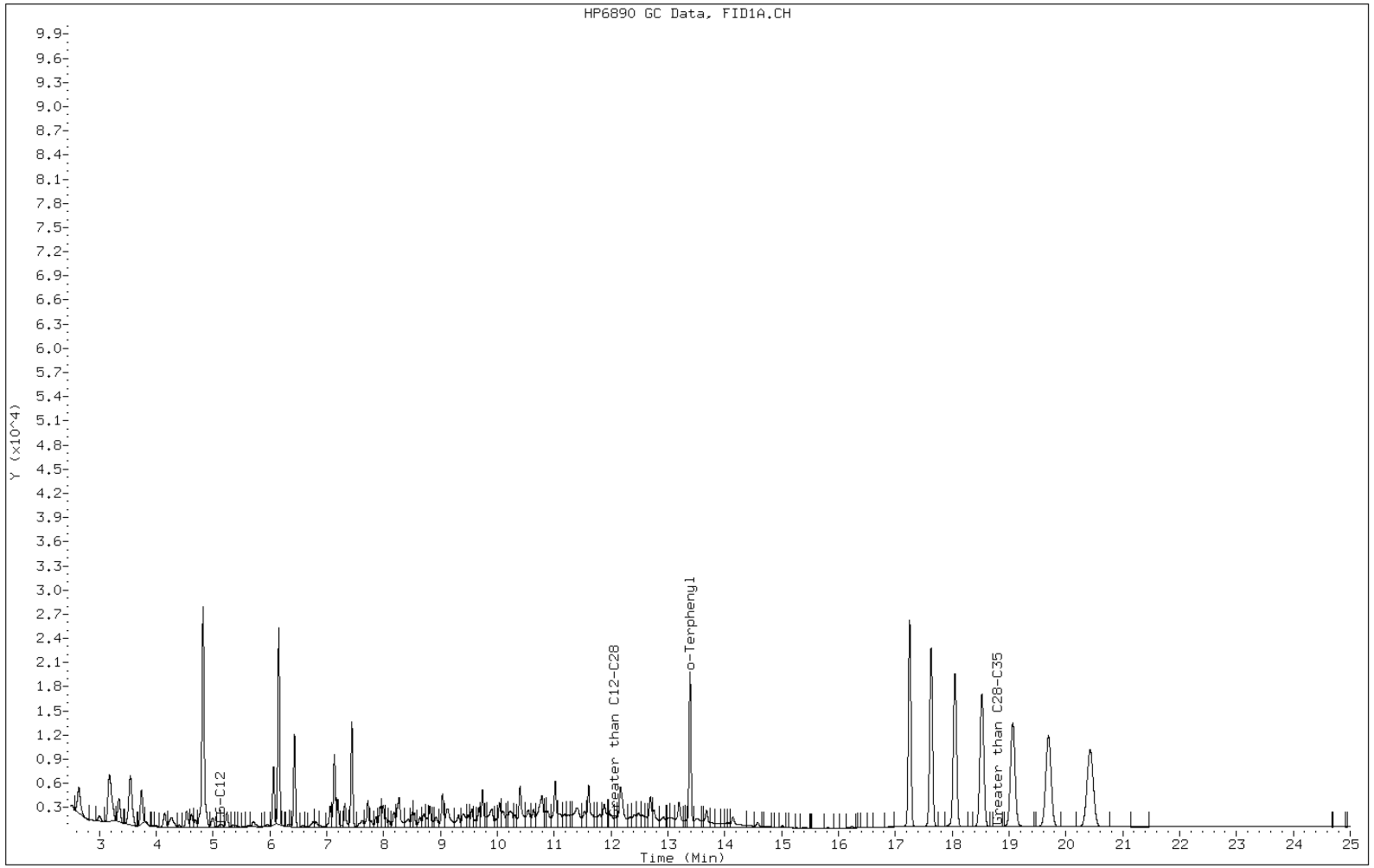
M - Compound response manually integrated.

Data File: F0410010.D

Date: 10-APR-2012 22:14

Client ID: Instrument: FID-12.i

Sample Info: ICRT Operator: RJV



Manual Integration Report

Data File: F0410010.D
Inj. Date and Time: 10-APR-2012 22:14
Instrument ID: FID-12.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 04/20/2012

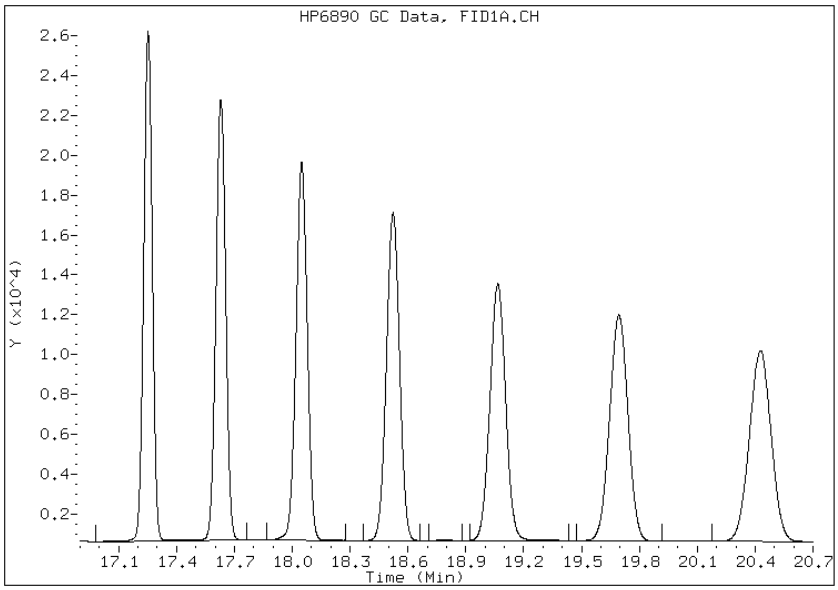
Processing Integration Results

RT: 18.80

Response: 554840

Amount: 179.16

Conc: 179.16



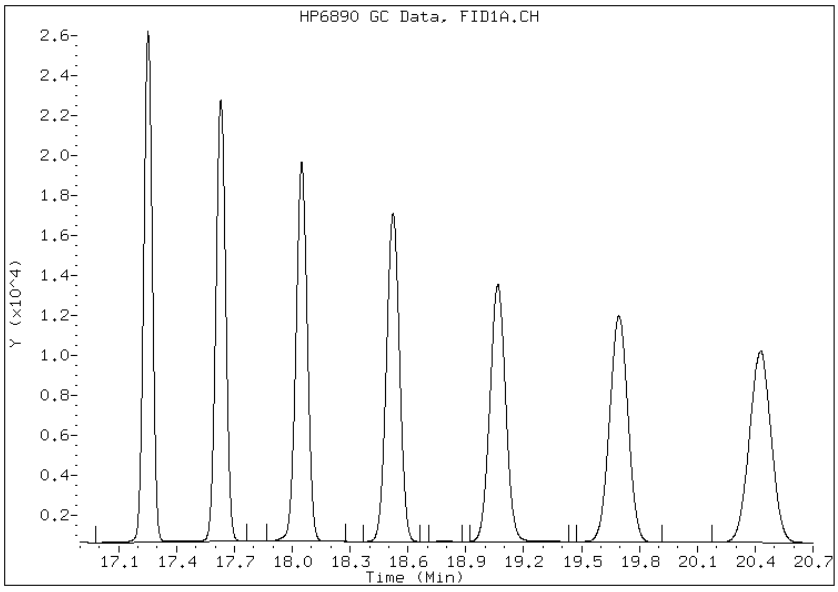
Manual Integration Results

RT: 18.80

Response: 536465

Amount: 177.90

Conc: 177.90



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410011.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 22:47
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-5
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 18-Apr-2012 13:24 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 22:14 Cal File: F0410010.D
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			659873	400.000	365.9
S	2 Greater than C12-C28	7.300-16.800			1222701	400.000	382.9
S	3 Greater than C28-C35	17.000-20.600			1060620	400.000	361.7
$	4 o-Terphenyl	13.390	13.391	-0.001	95495	25.0000	23.59
S	5 Total C6-C35				2943194	400.000	1110

Data File: F0410011.D

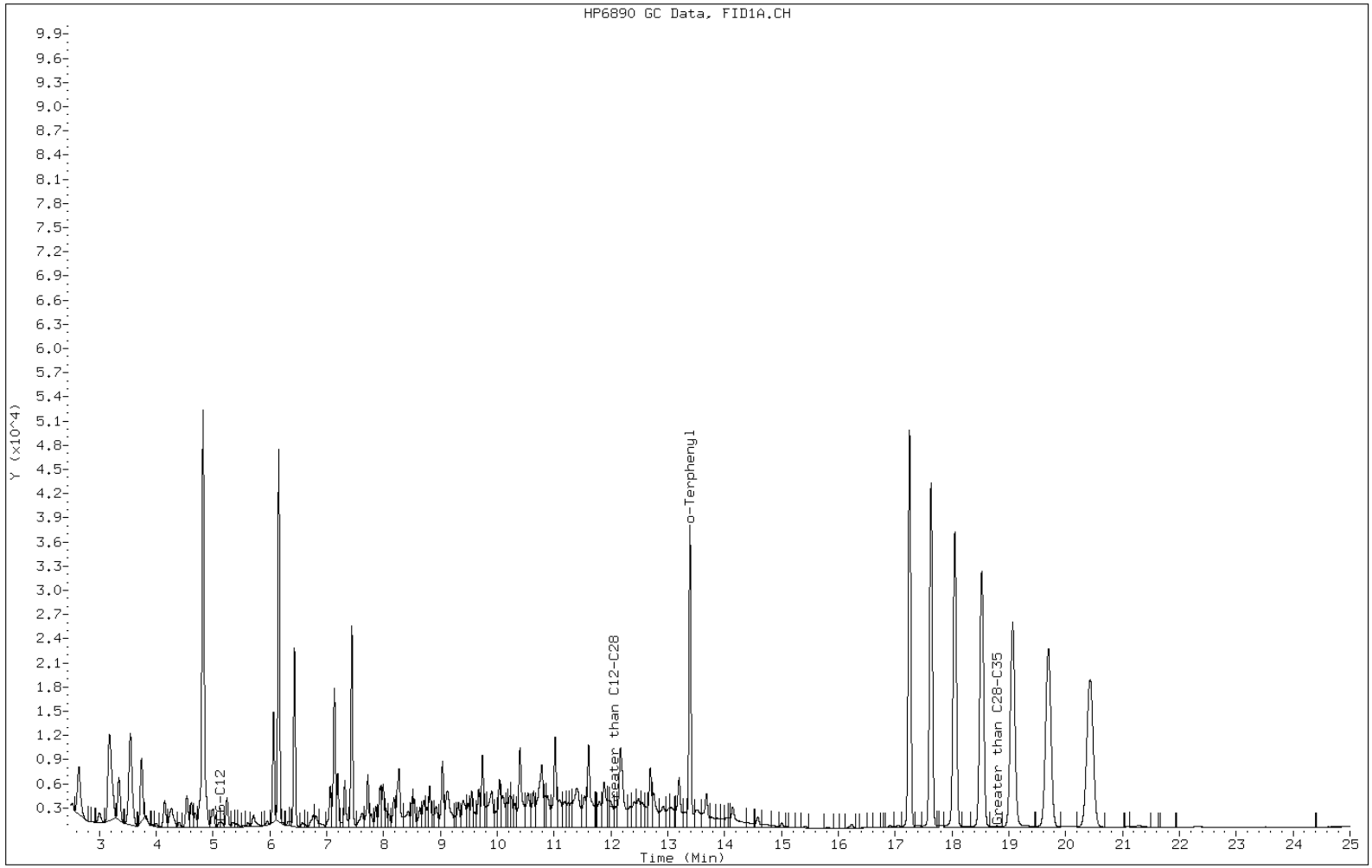
Date: 10-APR-2012 22:47

Client ID:

Instrument: FID-12.i

Sample Info: IC-5

Operator: RJV



TestAmerica Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410012.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 23:20
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-6
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 15-Oct-2012 12:15 cupton Quant Type: ESTD
Cal Date : 10-APR-2012 20:37 Cal File: F0410007.D
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC166

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
S	1 C6-C12	3.000-7.250			1385132	800.000	788.9
S	2 Greater than C12-C28	7.300-16.800			2495764	800.000	790.8
S	3 Greater than C28-C35	17.000-20.600			2426375	800.000	832.3
$	4 o-Terphenyl	13.391	13.391	0.000	201093	50.0000	50.34
S	5 Total C6-C35				6307271	800.000	2412

Data File: F0410012.D

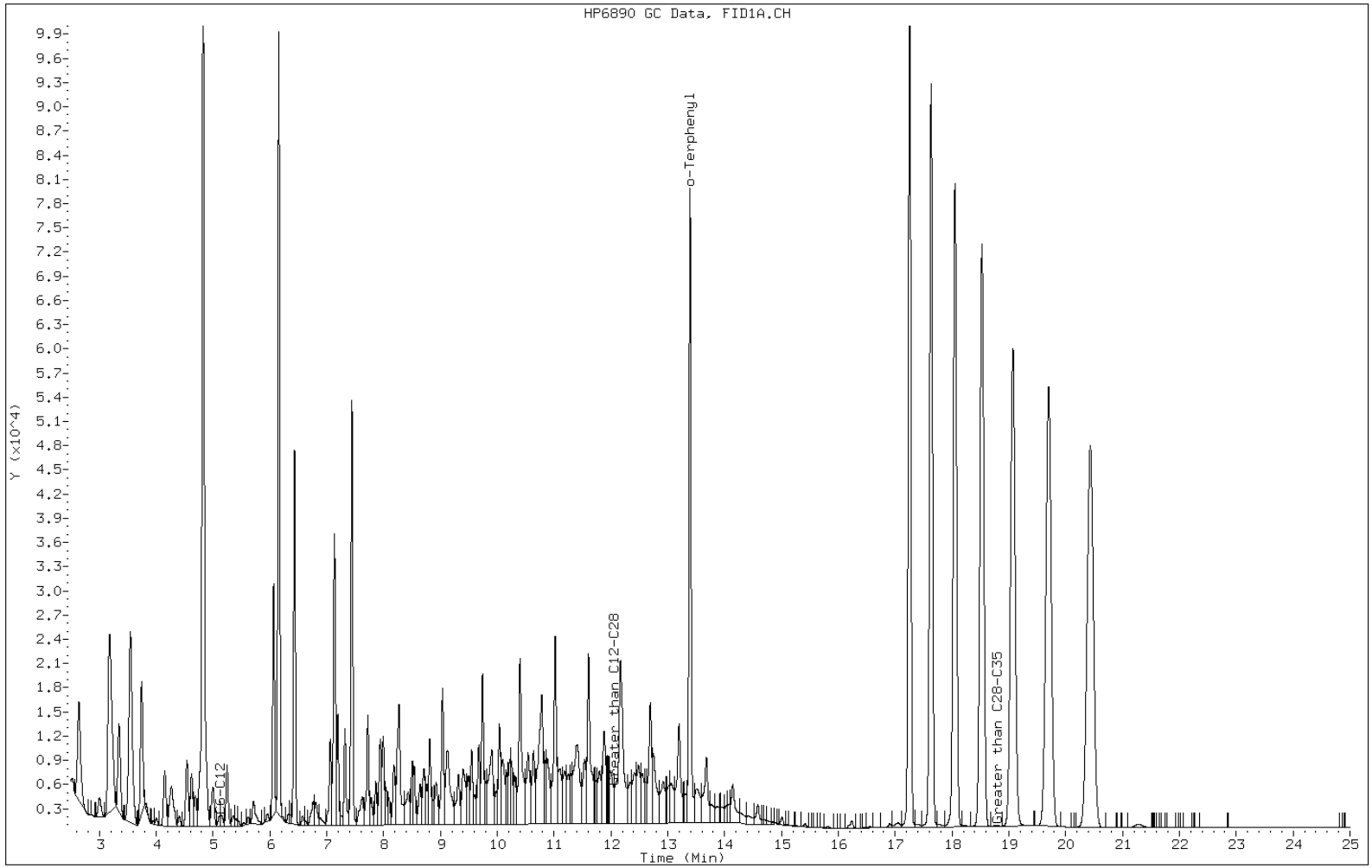
Date: 10-APR-2012 23:20

Client ID:

Instrument: FID-12.i

Sample Info: IC-6

Operator: RJV



TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\041012A.b-1005\F0410013.D
Lab Smp Id: IC
Inj Date : 10-APR-2012 23:53
Operator : RJV Inst ID: FID-12.i
Smp Info : IC-7
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\041012A.b-1005\1005a.m
Meth Date : 18-Apr-2012 13:24 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 23:20 Cal File: F0410012.D
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			1694271	1000.00	959.4
S	2 Greater than C12-C28	7.300-16.800			3143251	1000.00	995.2
S	3 Greater than C28-C35	17.000-20.600			2992569	1000.00	1031(A)
$	4 o-Terphenyl	13.390	13.391	-0.001	245382	62.5000	61.25
S	5 Total C6-C35				7830091	1000.00	2986

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: F0410013.D

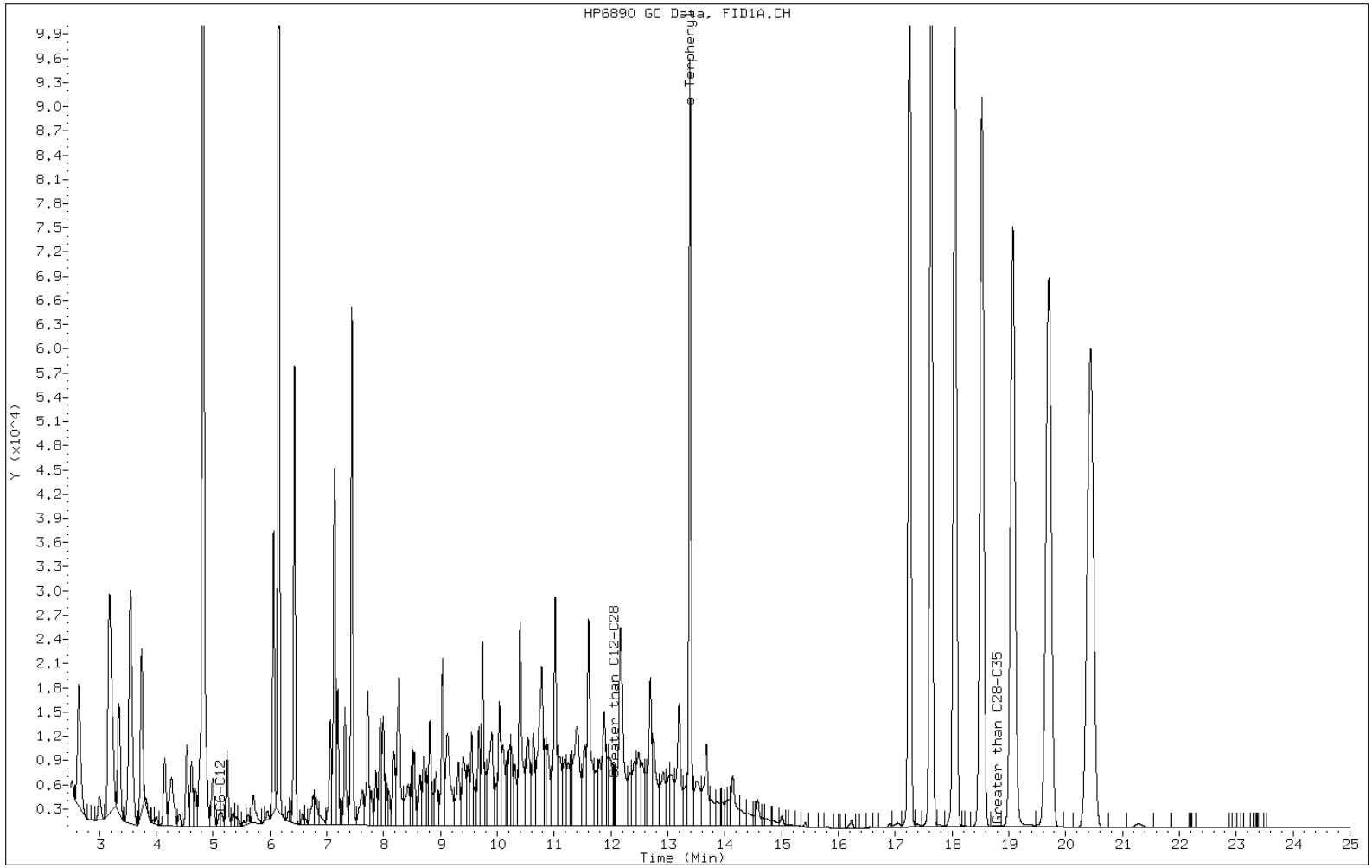
Date: 10-APR-2012 23:53

Client ID:

Instrument: FID-12.i

Sample Info: IC-7

Operator: RJV



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCVRT 600-89617/1 Calibration Date: 09/26/2012 11:11

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926002.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	1756	1559		178	200	-11.2	25.0
>C12-C28	Ave	3156	2799		177	200	-11.3	25.0
>C28-C35	Ave	2915	2911		200	200	-0.2	25.0
o-Terphenyl	Ave	3995	3288		10.3	12.5	-17.7	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCVRT 600-89617/1 Calibration Date: 09/26/2012 11:11

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926002.D

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.13	3.00	7.25
C6-C35	11.80	3.00	20.60
>C12-C28	12.05	7.30	16.80
>C28-C35	18.80	17.00	20.60
o-Terphenyl	13.45	13.35	13.55

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926002.D
Lab Smp Id: CCV
Inj Date : 26-SEP-2012 11:11
Operator : RJV Inst ID: FID-12.i
Smp Info : CCV
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			311854	200.000	177.6
S	2 Greater than C12-C28	7.300-16.800			559858	200.000	177.4(M)
S	3 Greater than C28-C35	17.000-20.600			581905	200.000	199.6
$	4 o-Terphenyl	13.448	13.448	0.000	41105	12.5000	10.29(M)
S	5 Total C6-C35				1453617	200.000	554.6

QC Flag Legend

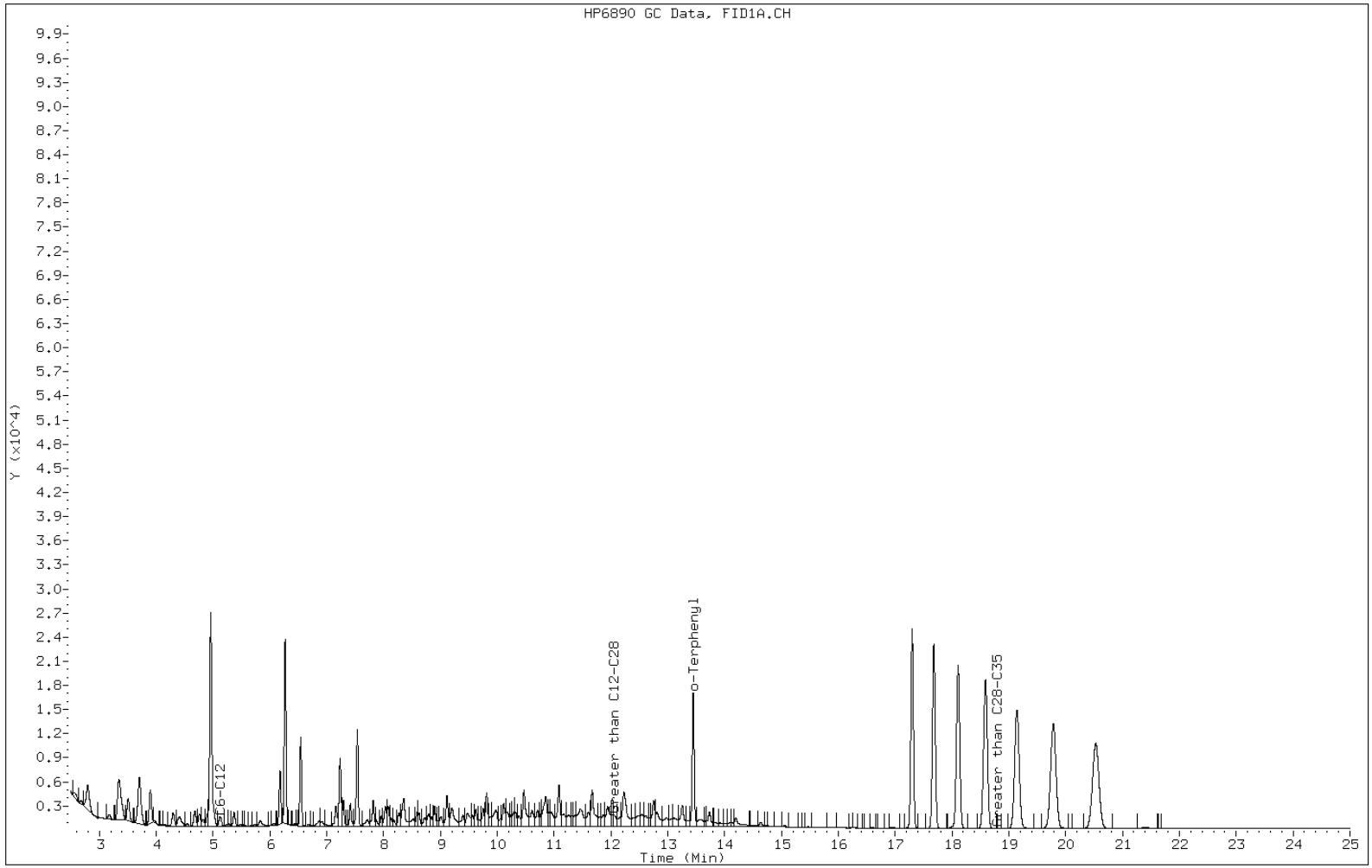
M - Compound response manually integrated.

Data File: F0926002.D

Date: 26-SEP-2012 11:11

Client ID: Instrument: FID-12.i

Sample Info: CCV Operator: RJV



Manual Integration Report

Data File: F0926002.D
Inj. Date and Time: 26-SEP-2012 11:11
Instrument ID: FID-12.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/26/2012

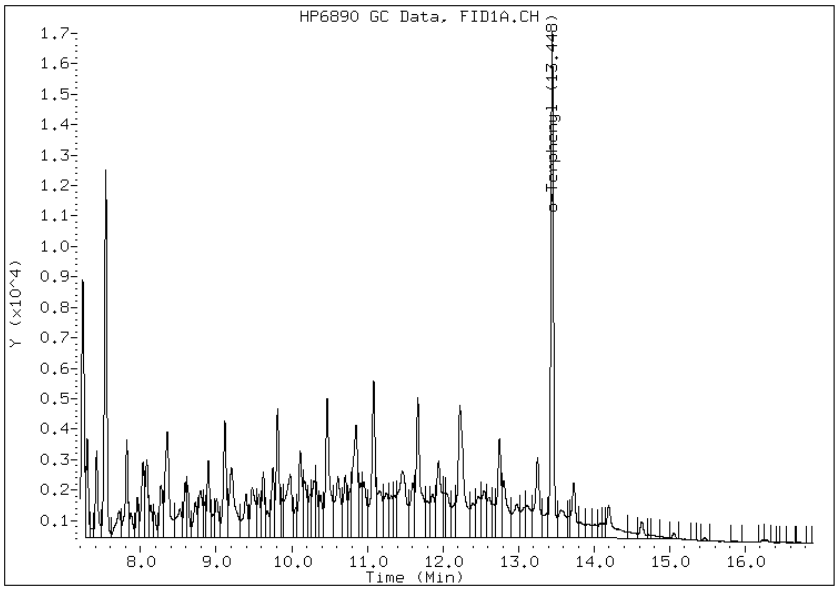
Processing Integration Results

RT: 12.05

Response: 559858

Amount: 177.39

Conc: 177.39



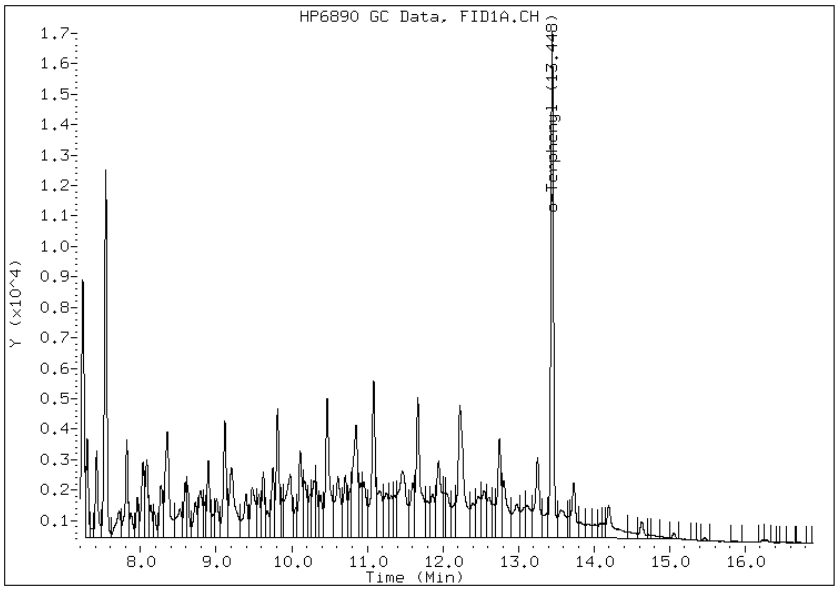
Manual Integration Results

RT: 12.05

Response: 559858

Amount: 177.39

Conc: 177.39



Manually Integrated By:
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: F0926002.D
Inj. Date and Time: 26-SEP-2012 11:11
Instrument ID: FID-12.i
Client ID:
Compound: 4 o-Terphenyl
CAS #: 84-15-1
Report Date: 09/26/2012

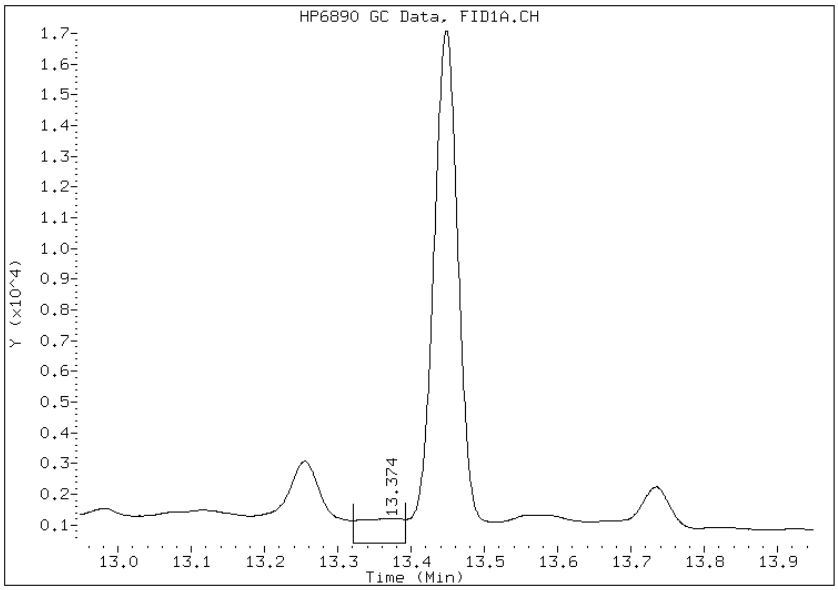
Processing Integration Results

RT: 13.37

Response: 3284

Amount: 0.82

Conc: 0.82



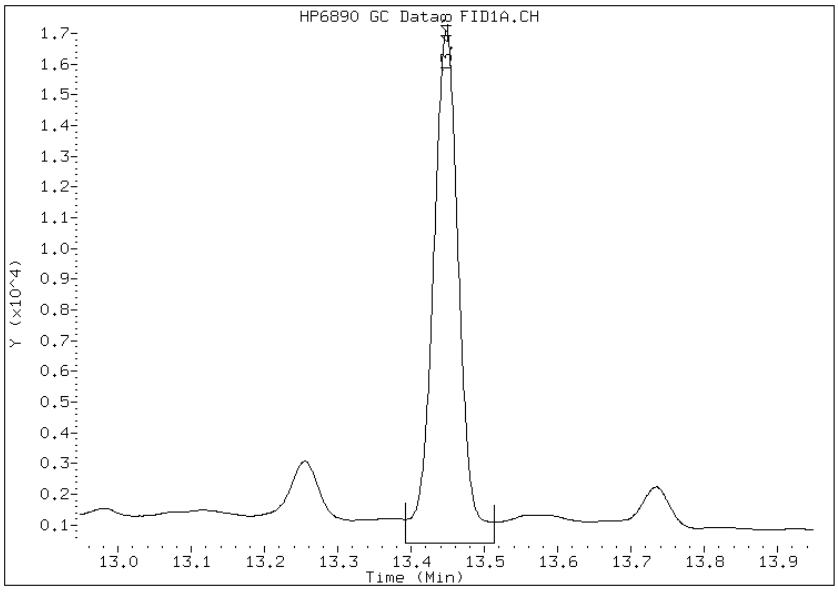
Manual Integration Results

RT: 13.45

Response: 41105

Amount: 10.29

Conc: 10.29



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCV 600-89617/10 Calibration Date: 09/26/2012 17:53

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926013.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	1756	1716		195	200	-2.3	25.0
>C12-C28	Ave	3156	3187		202	200	1.0	25.0
>C28-C35	Ave	2915	3205		220	200	9.9	25.0
o-Terphenyl	Ave	3995	3818		12.0	12.5	-4.4	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCV 600-89617/10 Calibration Date: 09/26/2012 17:53

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926013.D

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.13	3.00	7.25
C6-C35	11.80	3.00	20.60
>C12-C28	12.05	7.30	16.80
>C28-C35	18.80	17.00	20.60
o-Terphenyl	13.45	13.35	13.55

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612.b\F0926013.D
Lab Smp Id: CCV
Inj Date : 26-SEP-2012 17:53
Operator : RJV Inst ID: FID-12.i
Smp Info : CCV
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612.b\1005a.m
Meth Date : 27-Sep-2012 08:15 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			343102	200.000	195.4
S	2 Greater than C12-C28	7.300-16.800			637454	200.000	202.0(M)
S	3 Greater than C28-C35	17.000-20.600			640668	200.000	219.8
$	4 o-Terphenyl	13.450	13.450	0.000	47727	12.5000	11.95(M)
S	5 Total C6-C35				1621224	200.000	617.2

QC Flag Legend

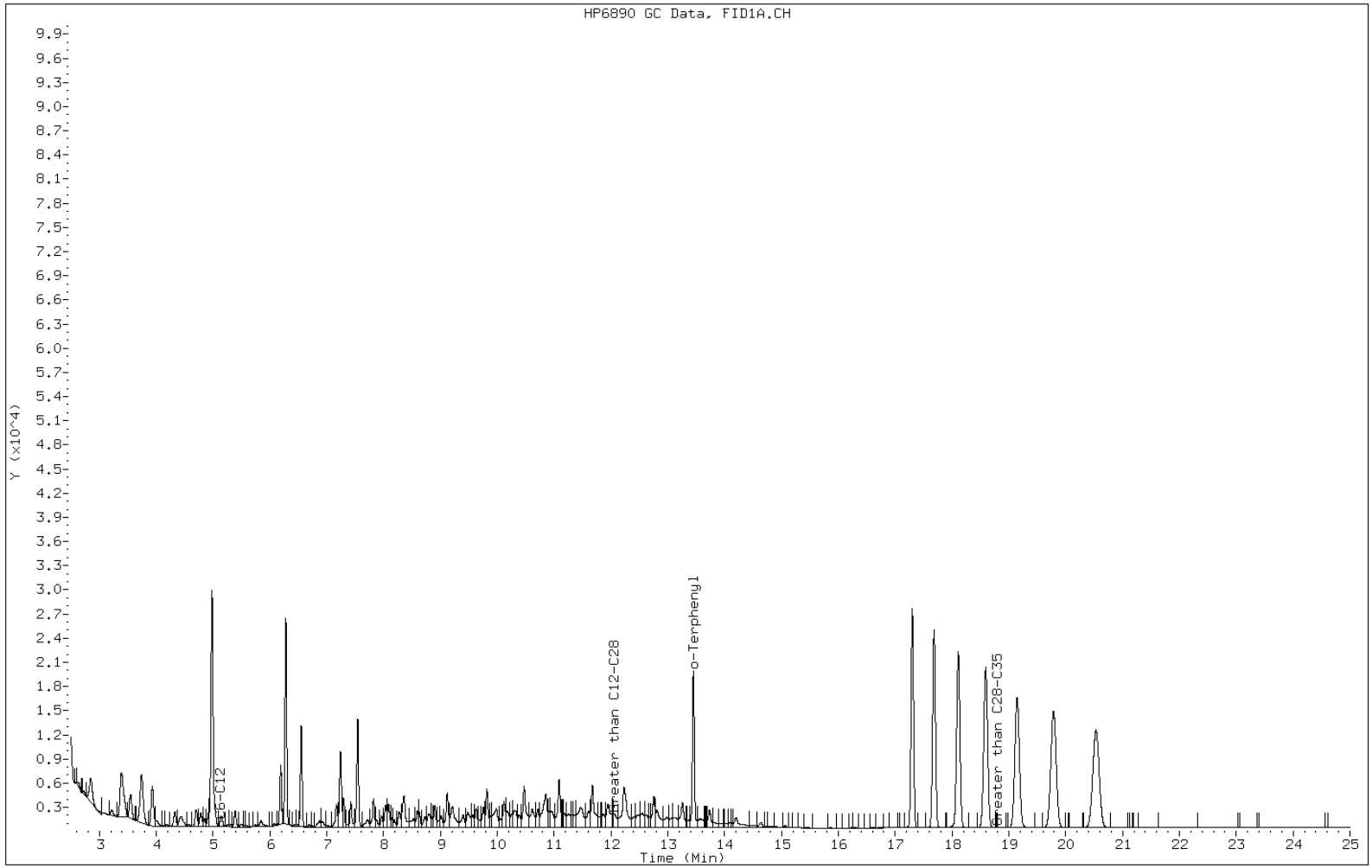
M - Compound response manually integrated.

Data File: F0926013.D

Date: 26-SEP-2012 17:53

Client ID: Instrument: FID-12.i

Sample Info: CCV Operator: RJV



Manual Integration Report

Data File: F0926013.D
Inj. Date and Time: 26-SEP-2012 17:53
Instrument ID: FID-12.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

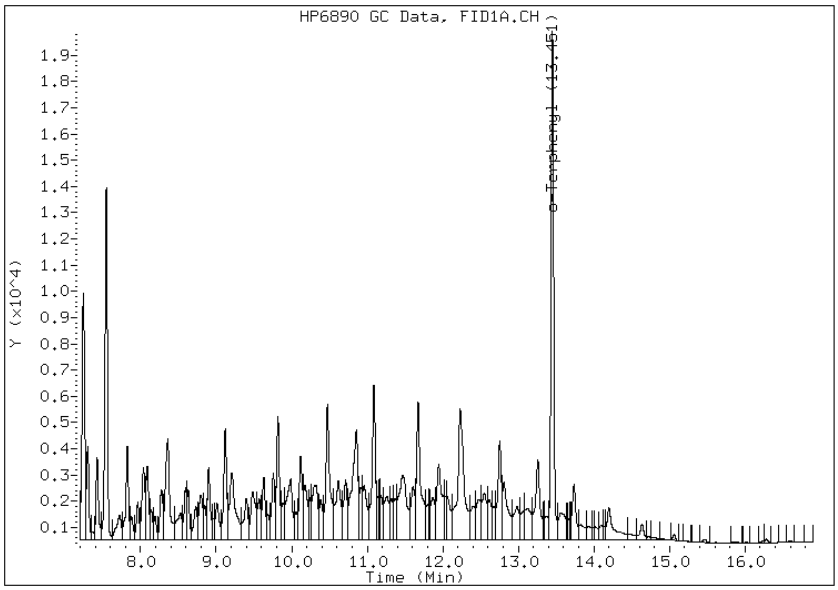
Processing Integration Results

RT: 12.05

Response: 637454

Amount: 201.97

Conc: 201.97



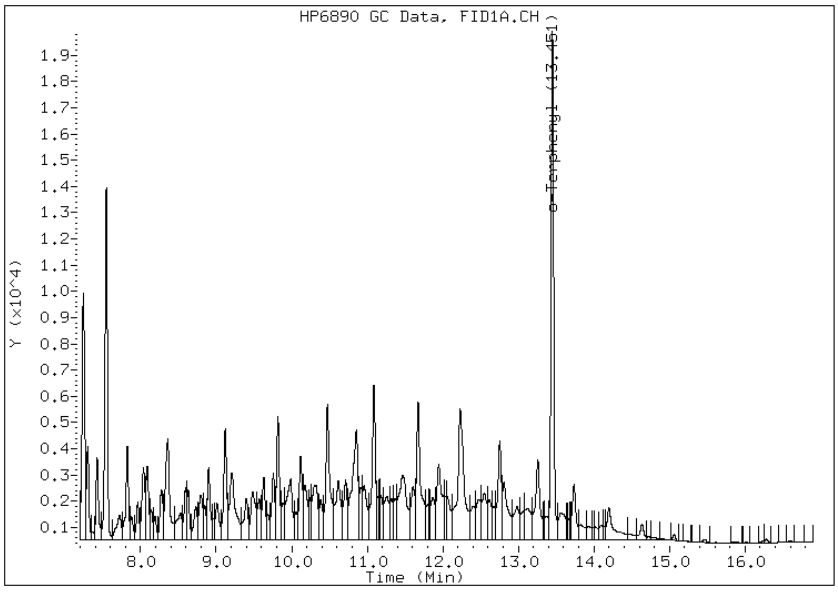
Manual Integration Results

RT: 12.05

Response: 637454

Amount: 201.97

Conc: 201.97



Manually Integrated By:
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: F0926013.D
Inj. Date and Time: 26-SEP-2012 17:53
Instrument ID: FID-12.i
Client ID:
Compound: 4 o-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

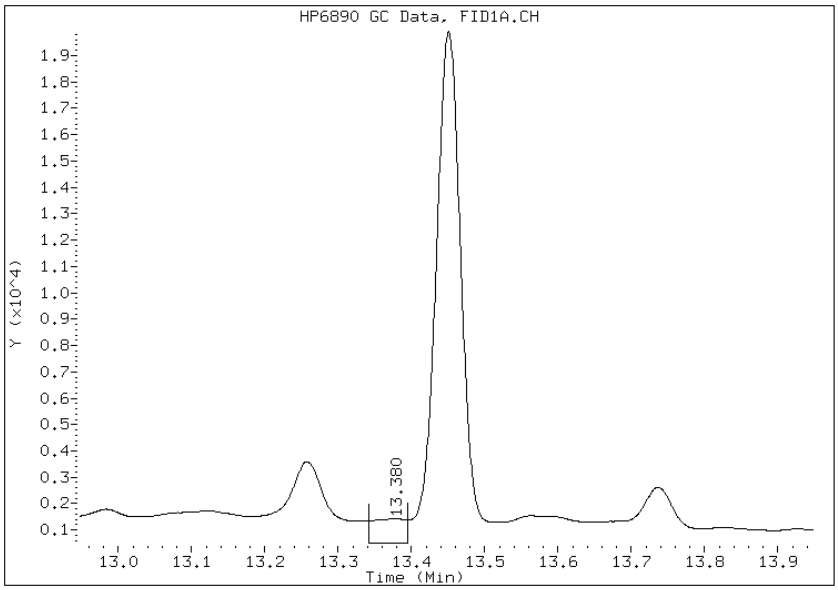
Processing Integration Results

RT: 13.38

Response: 2820

Amount: 0.71

Conc: 0.71



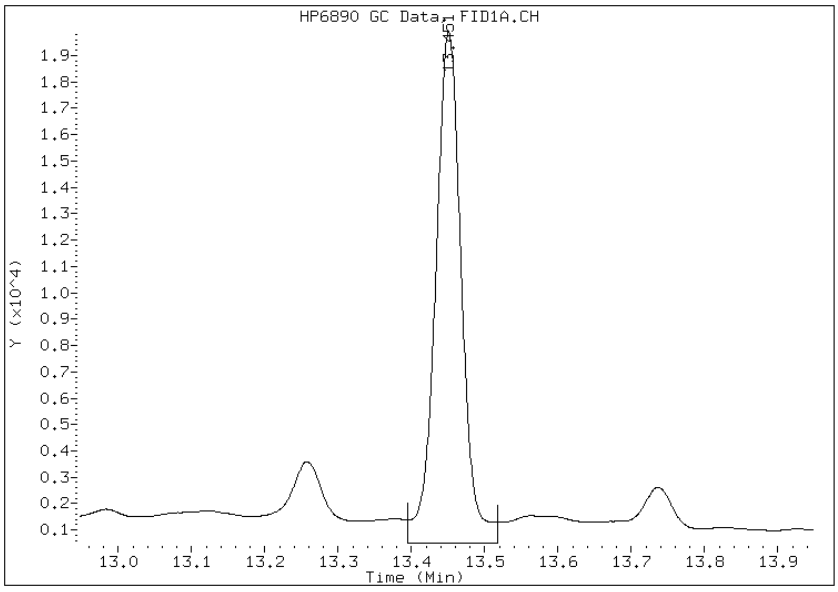
Manual Integration Results

RT: 13.45

Response: 47727

Amount: 11.95

Conc: 11.95



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCV 600-89617/21 Calibration Date: 09/26/2012 23:52

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926024.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	1756	1830		208	200	4.2	25.0
>C12-C28	Ave	3156	3313		210	200	5.0	25.0
>C28-C35	Ave	2915	3363		231	200	15.4	25.0
o-Terphenyl	Ave	3995	3969		12.4	12.5	-0.7	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: CCV 600-89617/21 Calibration Date: 09/26/2012 23:52

Instrument ID: FID12 Calib Start Date: 04/10/2012 20:37

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 04/10/2012 23:53

Lab File ID: F0926024.D

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.13	3.00	7.25
C6-C35	11.80	3.00	20.60
>C12-C28	12.05	7.30	16.80
>C28-C35	18.80	17.00	20.60
o-Terphenyl	13.45	13.35	13.55

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612.b\F0926024.D
Lab Smp Id: CCV
Inj Date : 26-SEP-2012 23:52
Operator : RJV Inst ID: FID-12.i
Smp Info : CCV
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612.b\1005a.m
Meth Date : 27-Sep-2012 08:15 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	3.000-7.250			365914	200.000	208.4
S	2 Greater than C12-C28	7.300-16.800			662629	200.000	209.9(M)
S	3 Greater than C28-C35	17.000-20.600			672405	200.000	230.7
$	4 o-Terphenyl	13.449	13.449	0.000	49608	12.5000	12.42(M)
S	5 Total C6-C35				1700948	200.000	649.0

QC Flag Legend

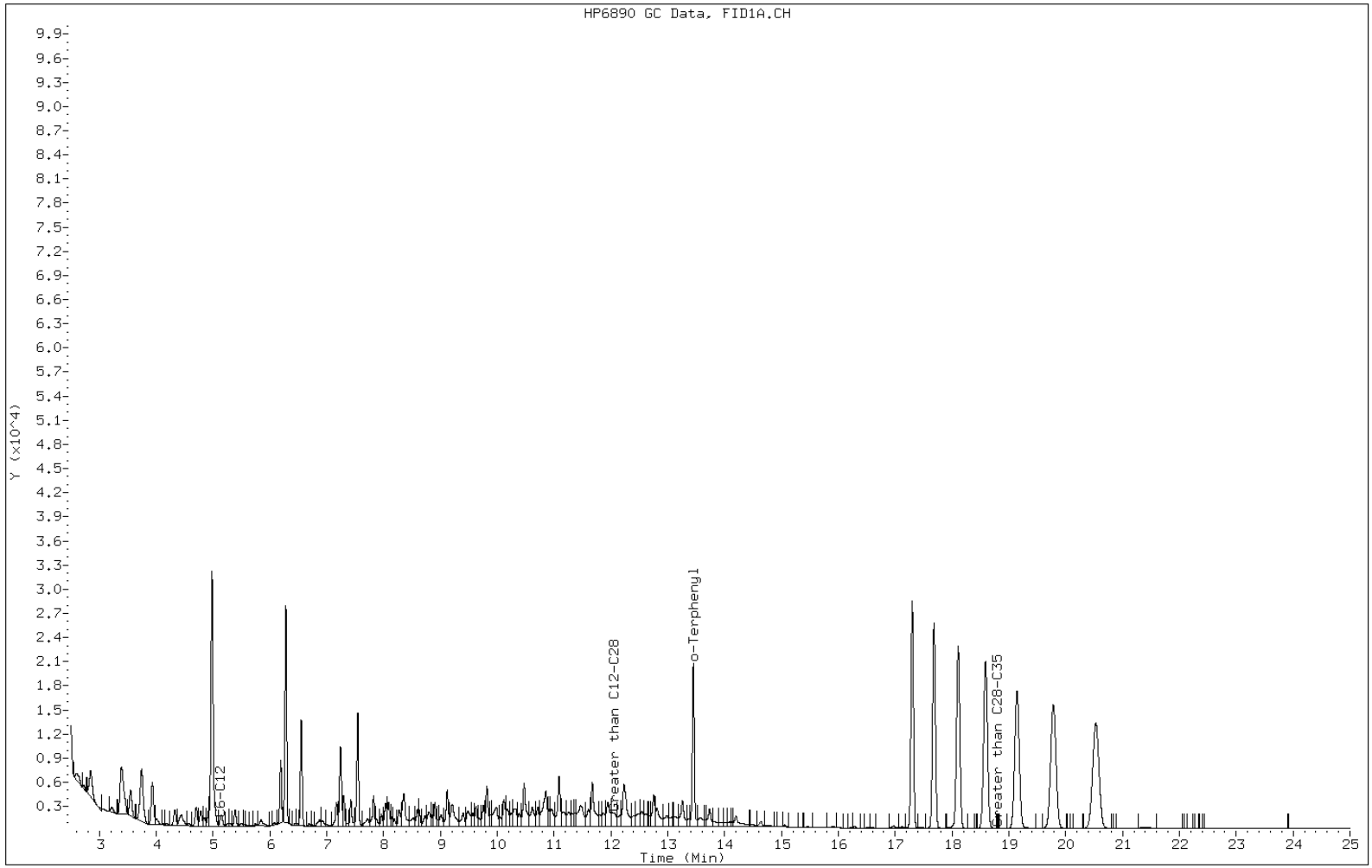
M - Compound response manually integrated.

Data File: F0926024.D

Date: 26-SEP-2012 23:52

Client ID: Instrument: FID-12.i

Sample Info: CCV Operator: RJV



Manual Integration Report

Data File: F0926024.D
Inj. Date and Time: 26-SEP-2012 23:52
Instrument ID: FID-12.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

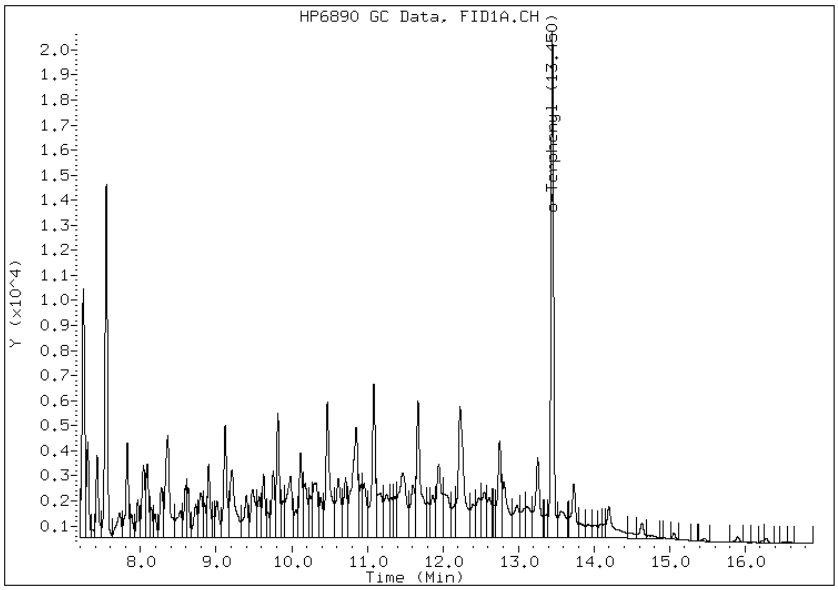
Processing Integration Results

RT: 12.05

Response: 662629

Amount: 209.95

Conc: 209.95



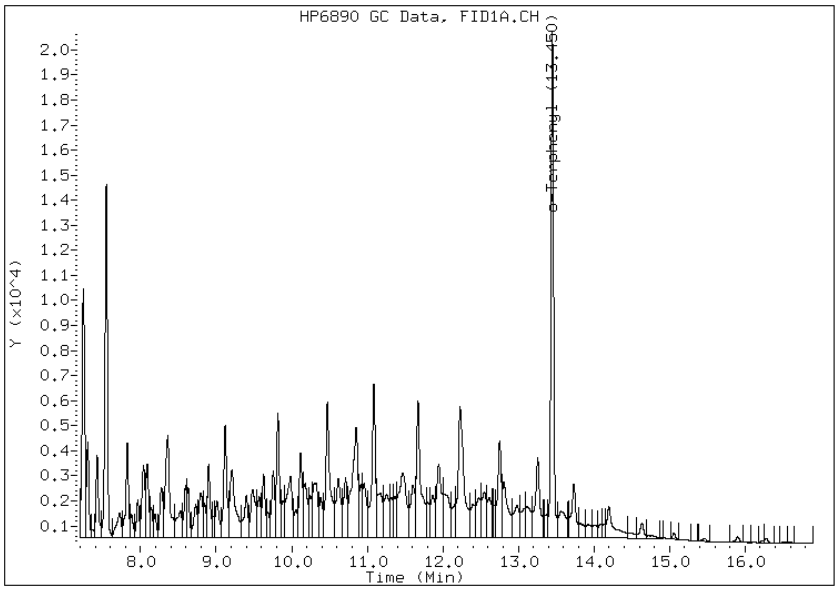
Manual Integration Results

RT: 12.05

Response: 662629

Amount: 209.95

Conc: 209.95



Manually Integrated By:
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: F0926024.D
Inj. Date and Time: 26-SEP-2012 23:52
Instrument ID: FID-12.i
Client ID:
Compound: 4 o-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

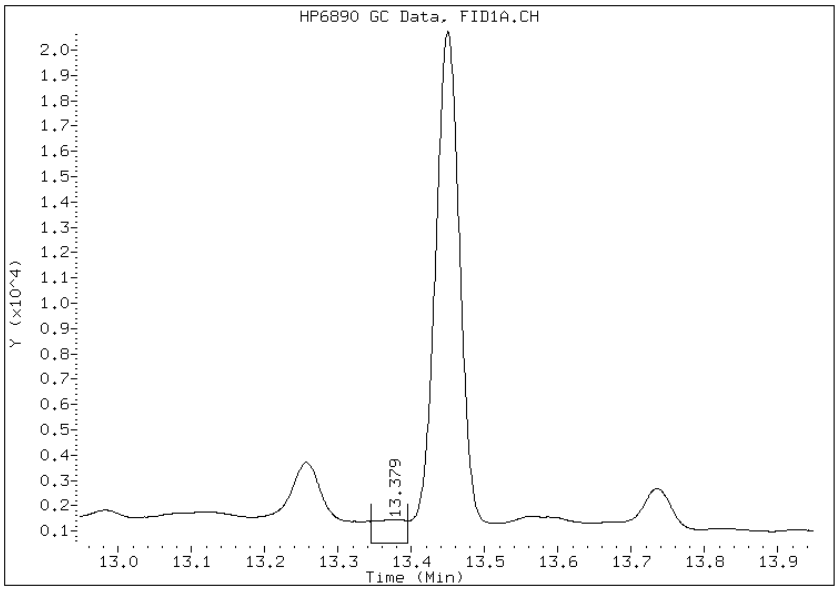
Processing Integration Results

RT: 13.38

Response: 2677

Amount: 0.67

Conc: 0.67



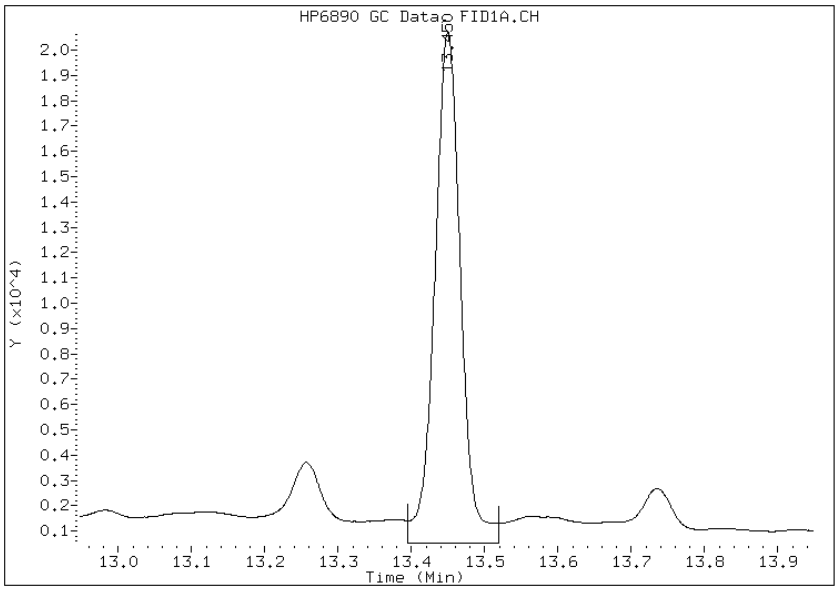
Manual Integration Results

RT: 13.45

Response: 49608

Amount: 12.42

Conc: 12.42



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-89599/1-A

Matrix: Solid Lab File ID: F0926014.D

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.00(g) Date Analyzed: 09/26/2012 18:26

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	3.80	U	25.0	3.80
STL00035	>C12-C28	4.06	U	25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	7.48	U	25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612A.b\F0926014.D
Lab Smp Id: mb 600-89599/1-a
Inj Date : 26-SEP-2012 18:26
Operator : RJV Inst ID: FID-12.i
Smp Info : mb 600-89599/1-a
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612A.b\1005a.m
Meth Date : 26-Sep-2012 14:23 vanderborg Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

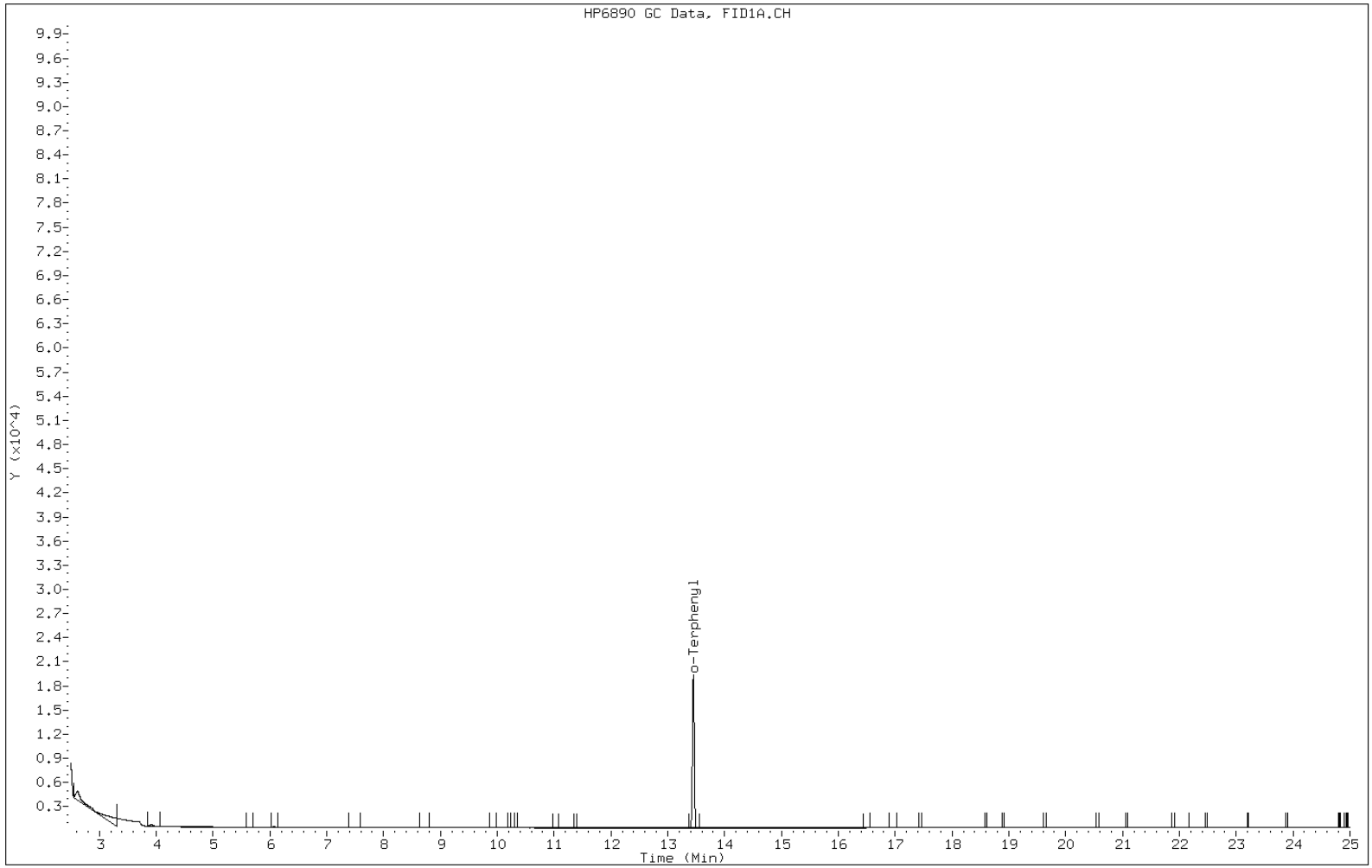
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 o-Terphenyl	13.450	13.448	0.002	42982	10.7595	10.76

Data File: F0926014.D

Date: 26-SEP-2012 18:26

Client ID: Instrument: FID-12.i

Sample Info: mb 600-89599/1-a Operator: RJV



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-89599/2-A

Matrix: Solid Lab File ID: F0926015.D

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 09/26/2012 12:15

Sample wt/vol: 10.00(g) Date Analyzed: 09/26/2012 18:59

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: RTX-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 89617 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	206.1		25.0	3.80
STL00035	>C12-C28	213.5		25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	419.6		25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		70-130

TestAmerica Laboratories-Houston

TX1005

Data file : \\housvr4\chem\FID-12.i\092612.b\F0926015.D
Lab Smp Id: lcs 600-89599/2-
Inj Date : 26-SEP-2012 18:59
Operator : RJV Inst ID: FID-12.i
Smp Info : lcs 600-89599/2-
Misc Info :
Comment :
Method : \\housvr4\chem\FID-12.i\092612.b\1005a.m
Meth Date : 27-Sep-2012 08:15 FID-12.i Quant Type: ESTD
Cal Date : 10-APR-2012 23:53 Cal File: F0410013.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.000	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
S	1 C6-C12	3.000-7.250			361804	206.076	206.1(R)
S	2 Greater than C12-C28	7.300-16.800			673899	213.520	213.5(M)
$	4 o-Terphenyl	13.450	13.450	0.000	40406	10.1146	10.11(RM)
S	5 Total C6-C35				1035703	419.596	419.6(R)

QC Flag Legend

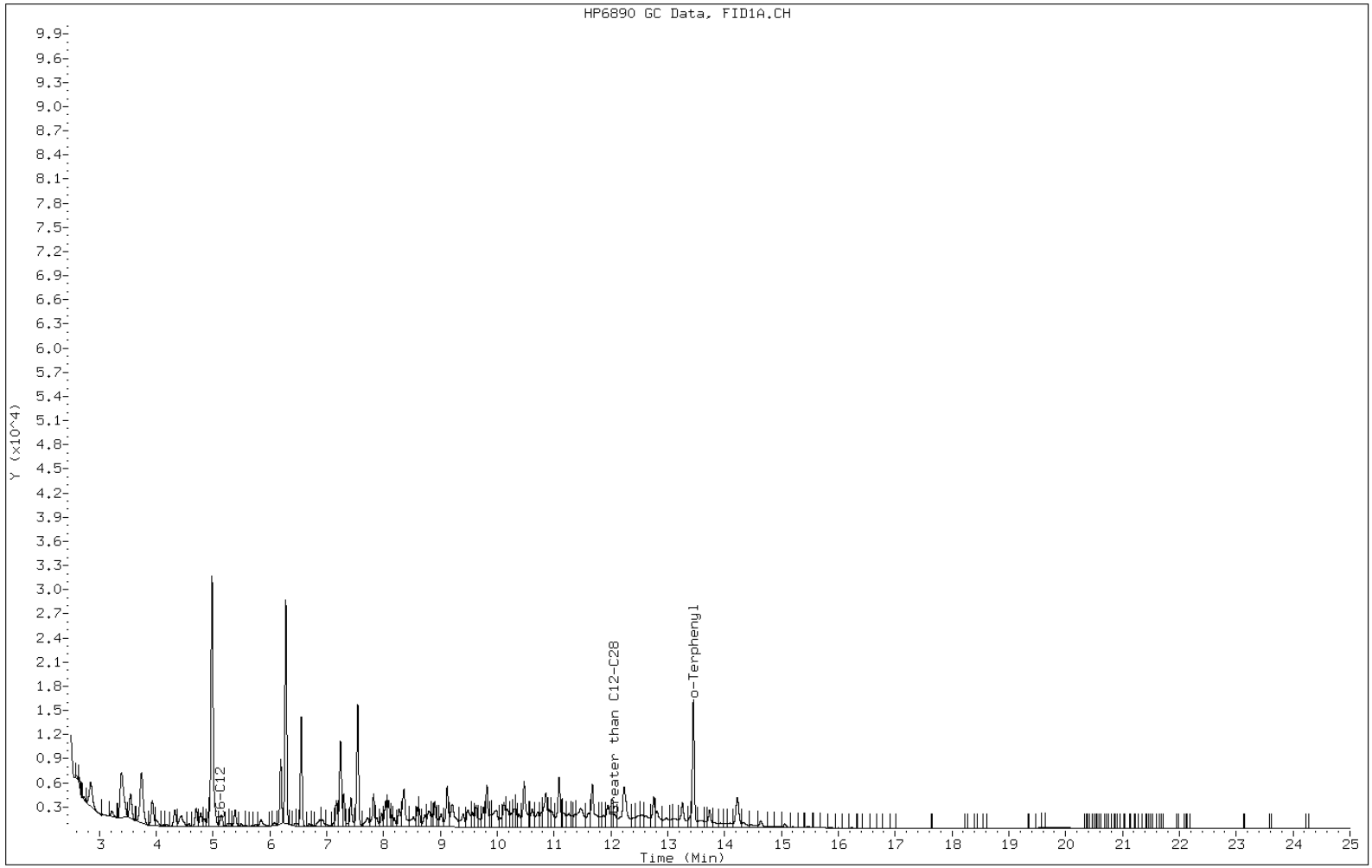
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: F0926015.D

Date: 26-SEP-2012 18:59

Client ID: Instrument: FID-12.i

Sample Info: lcs 600-89599/2- Operator: RJV



Manual Integration Report

Data File: F0926015.D
Inj. Date and Time: 26-SEP-2012 18:59
Instrument ID: FID-12.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 09/27/2012

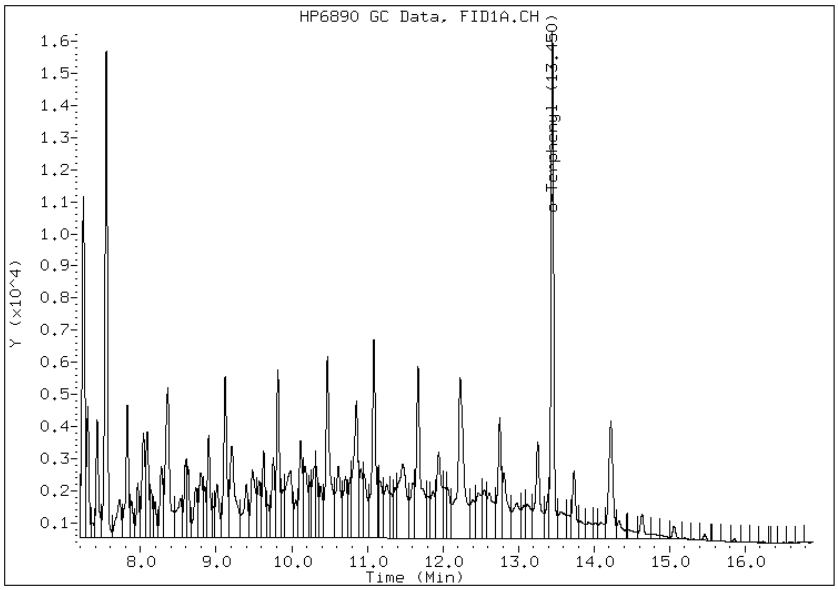
Processing Integration Results

RT: 12.05

Response: 673899

Amount: 213.52

Conc: 213.52



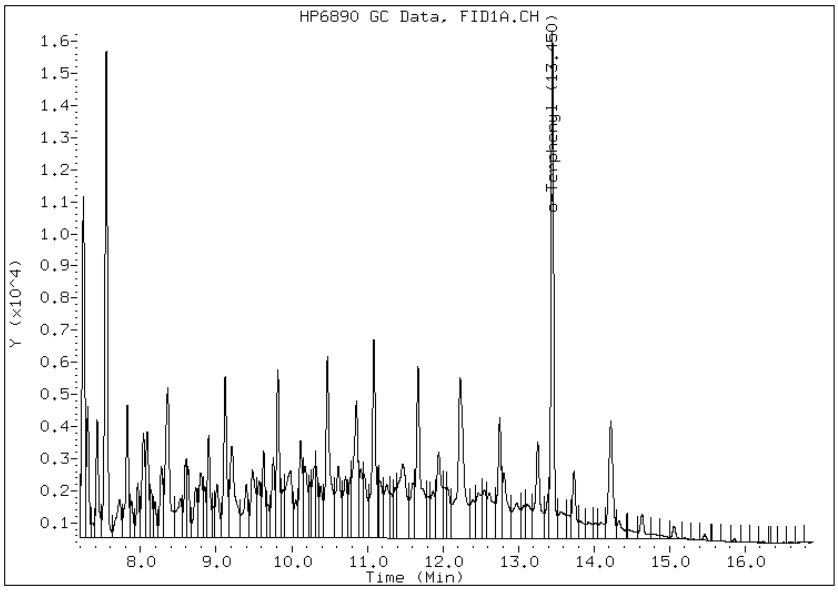
Manual Integration Results

RT: 12.05

Response: 673899

Amount: 213.52

Conc: 213.52



Manually Integrated By:
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: F0926015.D
Inj. Date and Time: 26-SEP-2012 18:59
Instrument ID: FID-12.i
Client ID:
Compound: 4 o-Terphenyl
CAS #: 84-15-1
Report Date: 09/27/2012

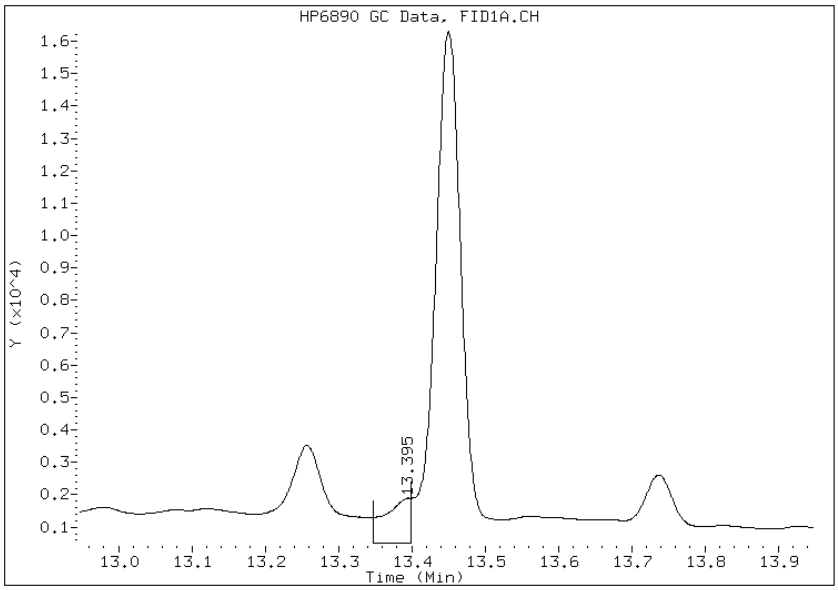
Processing Integration Results

RT: 13.40

Response: 3256

Amount: 0.82

Conc: 0.82



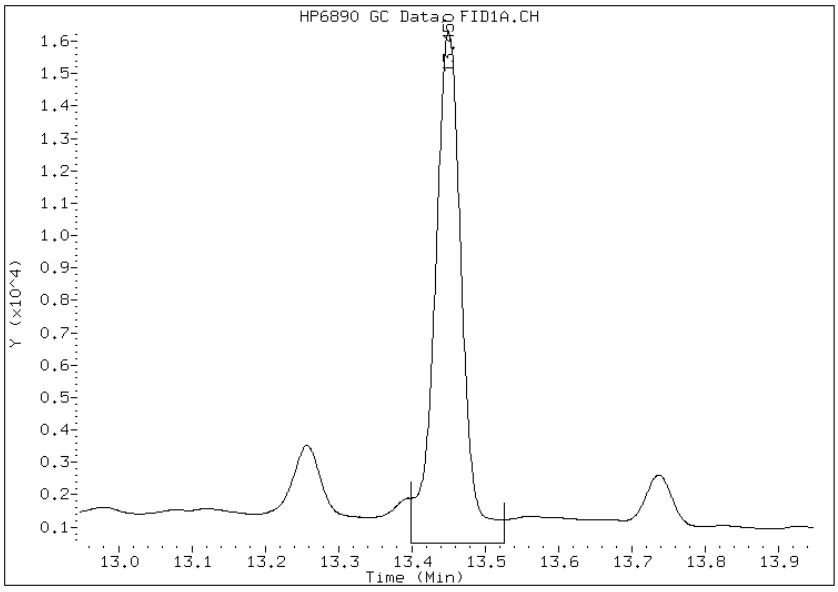
Manual Integration Results

RT: 13.45

Response: 40406

Amount: 10.11

Conc: 10.11



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: FID12 Start Date: 04/10/2012 20:37

Analysis Batch Number: 77114 End Date: 04/11/2012 00:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-77114/1		04/10/2012 20:37	1	F0410007.D	RTX-5 0.53(mm)
IC 600-77114/2		04/10/2012 21:09	1	F0410008.D	RTX-5 0.53(mm)
IC 600-77114/3		04/10/2012 21:42	1	F0410009.D	RTX-5 0.53(mm)
ICRT 600-77114/4		04/10/2012 22:14	1	F0410010.D	RTX-5 0.53(mm)
IC 600-77114/5		04/10/2012 22:47	1	F0410011.D	RTX-5 0.53(mm)
IC 600-77114/6		04/10/2012 23:20	1	F0410012.D	RTX-5 0.53(mm)
IC 600-77114/7		04/10/2012 23:53	1	F0410013.D	RTX-5 0.53(mm)
ICV 600-77114/8		04/11/2012 00:26	1		RTX-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: FID12 Start Date: 09/26/2012 11:11

Analysis Batch Number: 89617 End Date: 09/27/2012 12:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 600-89617/1		09/26/2012 11:11	1	F0926002.D	RTX-5 0.53(mm)
ZZZZZ		09/26/2012 13:19	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 13:51	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 14:24	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 14:57	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 15:30	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 16:15	25		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 16:48	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 17:20	1		RTX-5 0.53(mm)
CCV 600-89617/10		09/26/2012 17:53	1	F0926013.D	RTX-5 0.53(mm)
MB 600-89599/1-A		09/26/2012 18:26	1	F0926014.D	RTX-5 0.53(mm)
LCS 600-89599/2-A		09/26/2012 18:59	1	F0926015.D	RTX-5 0.53(mm)
600-61851-1	2012-FWFS-5 (Floor)	09/26/2012 19:32	1	F0926016.D	RTX-5 0.53(mm)
600-61851-2	2012-FWFS-5 (Wall)	09/26/2012 20:04	1	F0926017.D	RTX-5 0.53(mm)
600-61851-3	2012-FWFS-4 (Floor)	09/26/2012 20:37	1	F0926018.D	RTX-5 0.53(mm)
600-61851-4	2012-FWFS-4 (Wall)	09/26/2012 21:10	1	F0926019.D	RTX-5 0.53(mm)
ZZZZZ		09/26/2012 21:42	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 22:15	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 22:47	1		RTX-5 0.53(mm)
ZZZZZ		09/26/2012 23:19	1		RTX-5 0.53(mm)
CCV 600-89617/21		09/26/2012 23:52	1	F0926024.D	RTX-5 0.53(mm)
ZZZZZ		09/27/2012 00:24	1		RTX-5 0.53(mm)
CCV 600-89617/23		09/27/2012 01:28	1		RTX-5 0.53(mm)
ZZZZZ		09/27/2012 09:46	1		RTX-5 0.53(mm)
ZZZZZ		09/27/2012 10:39	1		RTX-5 0.53(mm)
ZZZZZ		09/27/2012 11:11	1		RTX-5 0.53(mm)
ZZZZZ		09/27/2012 11:44	1		RTX-5 0.53(mm)
CCV 600-89617/28		09/27/2012 12:16	1		RTX-5 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Batch Number: 89599 Batch Start Date: 09/26/12 12:15 Batch Analyst: Vo Pham, Ngoc-Ly

Batch Method: TX_1005_S_Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TX1005LCS 00052	TX1005SURR 00078		
MB 600-89599/1		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL		250 uL		
LCS 600-89599/2		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL	250 uL	250 uL		
600-61851-A-1	2012-FWFS-5 (Floor)	TX_1005_S_Prep, TX 1005	T	10.00 g	10.00 mL		250 uL		
600-61851-A-2	2012-FWFS-5 (Wall)	TX_1005_S_Prep, TX 1005	T	10.05 g	10.00 mL		250 uL		
600-61851-A-3	2012-FWFS-4 (Floor)	TX_1005_S_Prep, TX 1005	T	10.04 g	10.00 mL		250 uL		
600-61851-A-4	2012-FWFS-4 (Wall)	TX_1005_S_Prep, TX 1005	T	10.01 g	10.00 mL		250 uL		

Batch Notes	
Vendor lot number	Pentane-00008
Solvent	Pentane

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-5 (Floor)	600-61851-1
2012-FWFS-5 (Wall)	600-61851-2
2012-FWFS-5 (Wall)	600-61851-2 DL
2012-FWFS-4 (Floor)	600-61851-3
2012-FWFS-4 (Wall)	600-61851-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-5 (Floor)
Lab Sample ID: 600-61851-1
Lab Name: TestAmerica Houston
Job No.: 600-61851-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/24/2012 10:40
Reporting Basis: DRY
Date Received: 09/25/2012 08:50
% Solids: 74.6

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	1.42	0.329	0.0337	mg/Kg			1	6010B
7439-92-1	Lead	358	0.657	0.138	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-5 (Wall)
Lab Sample ID: 600-61851-2
Lab Name: TestAmerica Houston
Job No.: 600-61851-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/24/2012 10:49
Reporting Basis: DRY
Date Received: 09/25/2012 08:50
% Solids: 78.0

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	273	0.308	0.0316	mg/Kg			1	6010B
7439-92-1	Lead	52000	12.3	2.58	mg/Kg			20	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-4 (Floor)
Lab Sample ID: 600-61851-3
Lab Name: TestAmerica Houston
Job No.: 600-61851-1
SDG ID.:
Matrix: Solid
Date Sampled: 09/24/2012 10:57
Reporting Basis: DRY
Date Received: 09/25/2012 08:50
% Solids: 75.9

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	3.98	0.323	0.0331	mg/Kg			1	6010B
7439-92-1	Lead	504	0.646	0.135	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-4 (Wall) Lab Sample ID: 600-61851-4

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG ID.:

Matrix: Solid Date Sampled: 09/24/2012 11:02

Reporting Basis: DRY Date Received: 09/25/2012 08:50

% Solids: 81.2

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.471	0.302	0.0309	mg/Kg			1	6010B
7439-92-1	Lead	46.6	0.603	0.127	mg/Kg			1	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

ICV Source: MET0912CCV_00007 Concentration Units: mg/L

CCV Source: MET0912CCV_00007

Analyte	ICV 600-89809/9 09/28/2012 09:07				CCV 600-89809/108 09/28/2012 13:48				CCV 600-89809/121 09/28/2012 14:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.4866		0.500	97	0.4924		0.500	98	0.4971		0.500	99
Lead	0.4863		0.500	97	0.4819		0.500	96	0.4950		0.500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

ICV Source: MET0912CCV_00005 Concentration Units: mg/L

CCV Source: MET0912CCV_00005

Analyte	ICV 600-89930/4 10/01/2012 08:54				CCV 600-89930/30 10/01/2012 10:37				CCV 600-89930/42 10/01/2012 11:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5009		0.500	100	0.4945		0.500	99	0.4913		0.500	98
Lead	0.4949		0.500	99	0.4858		0.500	97	0.4802		0.500	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

ICV Source: MET0912CCV_00005 Concentration Units: mg/L

CCV Source: MET0912CCV_00005

Analyte	CCV 600-89930/54 10/01/2012 12:13				CCV 600-89930/61 10/01/2012 12:41							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5021		0.500	100	0.5035		0.500	101				
Lead	0.4822		0.500	96	0.4809		0.500	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

ICV Source: MET0912CCV_00005 Concentration Units: mg/L

CCV Source: MET1012CCV_00001

Analyte	ICV 600-89930/4 10/01/2012 08:54				CCV 600-89930/66 10/01/2012 13:36							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.5009		0.500	100	0.5042		0.500	101				
Lead	0.4949		0.500	99	0.4764		0.500	95				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Method: 6010B Instrument ID: TJA1

Lab Sample ID: CRI 600-89930/6 Concentration Units: mg/L

CRQL Check Standard Source: MET0912LOW_00006

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cadmium	0.00500	0.005210		104	0-500
Lead	0.0100	0.01055		106	0-500

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-89809/11 09/28/2012 09:11		CCB 600-89809/110 09/28/2012 13:52		CCB 600-89809/123 09/28/2012 14:46			
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U		
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 600-89930/5 10/01/2012 08:57		CCB 600-89930/31 10/01/2012 10:40		CCB 600-89930/43 10/01/2012 11:30		CCB 600-89930/55 10/01/2012 12:17	
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U	0.000730	U
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 600-89930/62 10/01/2012 12:45		CCB 600-89930/67 10/01/2012 13:40					
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U				
Lead	0.0100	0.00290	U	0.00290	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 600-89798/1-A

Instrument Code: Thermo6500 Batch No.: 89809

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	0.0256	U		6010B
7439-92-1	Lead	0.105	U		6010B

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 600-89798/1-A

Instrument Code: TJA1 Batch No.: 89930

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	0.0256	U		6010B
7439-92-1	Lead	0.105	U		6010B

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSA 600-89809/12 Instrument ID: Thermo6500

Lab File ID: A092812.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**0.0003**	
Lead		**0.0081**	
Aluminum	*500*	*531*	*106*
Antimony		*-0.0109*	
Arsenic		*-0.0064*	
Barium		*0.0005*	
Beryllium		*0.0001*	
Boron		*0.0013*	
Calcium	*500*	*499*	*100*
Chromium		*0.0031*	
Cobalt		*-0.0002*	
Copper		*0.0035*	
Iron	*200*	*197*	*98*
Lithium		*0.0179*	
Magnesium	*500*	*499*	*100*
Manganese		*-0.0049*	
Molybdenum		*-0.0009*	
Nickel		*0.0052*	
Potassium		*-0.0437*	
Selenium		*0.0065*	
Silicon		*0.0006*	
Silver		*-0.0001*	
Sodium		*0.0362*	
Strontium		*0.0022*	
Thallium		*-0.0067*	
Tin		*0.0060*	
Titanium		*0.0026*	
Vanadium		*-0.0005*	
Zinc		*0.0086*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSAB 600-89809/13 Instrument ID: Thermo6500

Lab File ID: A092812.asc ICS Source: METISB_00081

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Cadmium	**0.500**	**0.514**	**103**
Lead	**1.00**	**0.994**	**99**
Aluminum	*510*	*553*	*108*
Antimony	*1.00*	*0.994*	*99*
Arsenic	*1.00*	*1.01*	*101*
Barium	*1.00*	*0.970*	*97*
Beryllium	*0.500*	*0.481*	*96*
Boron	*1.00*	*0.969*	*97*
Calcium	*510*	*505*	*99*
Chromium	*1.00*	*0.927*	*93*
Cobalt	*1.00*	*0.975*	*97*
Copper	*1.00*	*1.05*	*105*
Iron	*210*	*212*	*101*
Lithium	*1.00*	*1.04*	*104*
Magnesium	*510*	*518*	*102*
Manganese	*1.00*	*0.939*	*94*
Molybdenum	*1.00*	*0.983*	*98*
Nickel	*1.00*	*0.970*	*97*
Potassium	*10.0*	*10.1*	*101*
Selenium	*1.00*	*1.01*	*101*
Silicon	*1.00*	*0.970*	*97*
Silver	*0.500*	*0.551*	*110*
Sodium	*10.0*	*10.2*	*102*
Strontium	*0.500*	*0.494*	*99*
Thallium	*1.00*	*0.967*	*97*
Tin	*1.00*	*1.02*	*102*
Titanium	*1.00*	*0.974*	*97*
Vanadium	*1.00*	*0.947*	*95*
Zinc	*1.00*	*0.943*	*94*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSA 600-89809/124 Instrument ID: Thermo6500

Lab File ID: A092812.asc ICS Source: METISA_00079

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Cadmium		**0.0002**	
Lead		**0.0057**	
Aluminum	*500*	*558*	*112*
Antimony		*-0.0091*	
Arsenic		*-0.0034*	
Barium		*0.0004*	
Beryllium		*0.0000*	
Boron		*0.0021*	
Calcium	*500*	*480*	*96*
Chromium		*0.0031*	
Cobalt		*-0.0001*	
Copper		*0.0011*	
Iron	*200*	*203*	*102*
Lithium		*0.0188*	
Magnesium	*500*	*530*	*106*
Manganese		*-0.0051*	
Molybdenum		*-0.0015*	
Nickel		*0.0047*	
Potassium		*-0.0437*	
Selenium		*0.0044*	
Silicon		*0.0057*	
Silver		*-0.0018*	
Sodium		*0.0151*	
Strontium		*0.0023*	
Thallium		*-0.0010*	
Tin		*0.0071*	
Titanium		*0.0028*	
Vanadium		*-0.0007*	
Zinc		*0.0081*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSAB 600-89809/125 Instrument ID: Thermo6500

Lab File ID: A092812.asc ICS Source: METISB_00081

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.502**	**100**
Lead	**1.00**	**0.977**	**98**
Aluminum	*510*	*555*	*109*
Antimony	*1.00*	*0.958*	*96*
Arsenic	*1.00*	*0.972*	*97*
Barium	*1.00*	*0.997*	*100*
Beryllium	*0.500*	*0.486*	*97*
Boron	*1.00*	*0.983*	*98*
Calcium	*510*	*473*	*93*
Chromium	*1.00*	*0.924*	*92*
Cobalt	*1.00*	*0.969*	*97*
Copper	*1.00*	*1.06*	*106*
Iron	*210*	*208*	*99*
Lithium	*1.00*	*1.06*	*106*
Magnesium	*510*	*518*	*102*
Manganese	*1.00*	*0.888*	*89*
Molybdenum	*1.00*	*0.901*	*90*
Nickel	*1.00*	*0.946*	*95*
Potassium	*10.0*	*10.3*	*103*
Selenium	*1.00*	*0.955*	*95*
Silicon	*1.00*	*0.966*	*97*
Silver	*0.500*	*0.516*	*103*
Sodium	*10.0*	*10.4*	*104*
Strontium	*0.500*	*0.493*	*99*
Thallium	*1.00*	*0.942*	*94*
Tin	*1.00*	*0.948*	*95*
Titanium	*1.00*	*0.958*	*96*
Vanadium	*1.00*	*0.938*	*94*
Zinc	*1.00*	*0.929*	*93*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSA 600-89930/7 Instrument ID: TJA1

Lab File ID: A100112 ICS Source: METISA_00078

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**-0.0007**	
Lead		**0.0131**	
Aluminum	*500*	*476*	*95*
Antimony		*0.0017*	
Arsenic		*0.0009*	
Barium		*0.0018*	
Beryllium		*-0.0003*	
Boron		*0.0019*	
Calcium	*500*	*454*	*91*
Chromium		*0.0017*	
Cobalt		*-0.0004*	
Copper		*0.0138*	
Iron	*200*	*197*	*99*
Lithium		*0.0045*	
Magnesium	*500*	*520*	*104*
Manganese		*-0.0076*	
Molybdenum		*0.0001*	
Nickel		*0.0008*	
Potassium		*0.170*	
Selenium		*-0.0121*	
Silicon		*0.0140*	
Silver		*-0.0007*	
Sodium		*0.167*	
Strontium		*-0.0089*	
Thallium		*-0.0411*	
Tin		*0.0010*	
Titanium		*-0.0028*	
Vanadium		*0.0041*	
Zinc		*0.0007*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Lab Sample ID: ICSAB 600-89930/8 Instrument ID: TJA1

Lab File ID: A100112 ICS Source: METISB_00080

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.488**	**98**
Lead	**1.00**	**1.02**	**102**
Aluminum	*510*	*483*	*95*
Antimony	*1.00*	*1.06*	*106*
Arsenic	*1.00*	*1.05*	*105*
Barium	*1.00*	*1.05*	*105*
Beryllium	*0.500*	*0.508*	*102*
Boron	*1.00*	*1.06*	*106*
Calcium	*510*	*459*	*90*
Chromium	*1.00*	*1.00*	*100*
Cobalt	*1.00*	*0.985*	*98*
Copper	*1.00*	*1.11*	*111*
Iron	*210*	*206*	*98*
Lithium	*1.00*	*1.20*	*120*
Magnesium	*510*	*529*	*104*
Manganese	*1.00*	*0.998*	*100*
Molybdenum	*1.00*	*1.02*	*102*
Nickel	*1.00*	*0.967*	*97*
Potassium	*10.0*	*14.2*	*142*
Selenium	*1.00*	*1.04*	*104*
Silicon	*1.00*	*1.01*	*101*
Silver	*0.500*	*0.554*	*111*
Sodium	*10.0*	*13.2*	*132*
Strontium	*0.500*	*0.501*	*100*
Thallium	*1.00*	*0.957*	*96*
Tin	*1.00*	*1.04*	*104*
Titanium	*1.00*	*1.02*	*102*
Vanadium	*1.00*	*1.01*	*101*
Zinc	*1.00*	*1.06*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 2012-FWFS-4 (Wall) MS Lab ID: 600-61851-4 MS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 81.2

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Cadmium	27.99		0.471		28.5	97	75-125		6010B
Lead	129.5		46.6		57.0	145	75-125	N	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 2012-FWFS-4 (Wall) MSD Lab ID: 600-61851-4 MSD

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 81.2

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Cadmium	26.62		29.3	89	75-125	5	20		6010B
Lead	74.69		58.6	48	75-125	54	20	N	6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 2012-FWFS-4 (Wall) PDS Lab ID: 600-61851-4 PDS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Cadmium	27.77		0.471		30.2	90	75-125		6010B
Lead	102.9		46.6		60.3	93	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 2012-FWFS-4 (Wall) DU Lab ID: 600-61851-4 DU

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

% Solids for Sample: 81.2 % Solids for Duplicate: 81.2

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Cadmium	0.293	0.471		0.4338		8		6010B
Lead	0.586	46.6		27.07		53	F	6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 600-89798/2-A

Lab Name: TestAmerica Houston Job No.: 600-61851-1

Sample Matrix: Solid LCS Source: METSLCSS_00017

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	71.0	65.75		93	81	119		6010B
Lead	144	135.0		94	79	121		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 600-89798/2-A

Lab Name: TestAmerica Houston Job No.: 600-61851-1

Sample Matrix: Solid LCS Source: METSLCSS_00017

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	71.0	62.15		88	81	119		6010B
Lead	144	126.8		88	79	121		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 600-61851-4

SDG No:

Lab Name: TestAmerica Houston Job No: 600-61851-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Cadmium	0.471		0.5431	J	NC		6010B
Lead	46.6		47.43		1.7		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG Number:

Matrix: Solid Instrument ID: Thermo6500

Method: 6010B XMDL Date: 05/15/2008 13:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cadmium		0.005	0.00073
Lead		0.01	0.0029

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG Number:

Matrix: Solid Instrument ID: TJA1

Method: 6010B XMDL Date: 05/15/2008 13:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cadmium		0.005	0.00073
Lead		0.01	0.0029

FORM IX - IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum															
Antimony											0.016762				
Arsenic											0.000730				
Barium															
Beryllium															
Boron															
Cadmium				0.006606											
Calcium															
Chromium															
Cobalt															
Copper															
Iron															
Lead			0.000130					-0.000003		-0.000716		0.00005	-0.000008		
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium										0.001769	0.00014				
Tin															
Titanium											0.000212				
Vanadium															
Zinc											-0.000077				

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V
Aluminum				0.024544											-0.023029
Antimony															
Arsenic				0.000336											
Barium															
Beryllium															0.000109
Boron															
Cadmium															0.000051
Calcium															
Chromium															
Cobalt						0.000428							0.001761		
Copper				0.000349											-0.000072
Iron															
Lead				-0.001741		0.000053				0.000127					
Lithium															
Magnesium															
Manganese		0.000013													
Molybdenum															
Nickel				0.000181										0.000158	
Potassium															
Selenium															
Silicon				0.005820											
Silver				0.024544											0.000094
Sodium															
Strontium															
Thallium			0.00095												0.000309
Tin															
Titanium				0.000352											
Vanadium				-0.001293											
Zinc				0.000669											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG No.:

ICP-AES Instrument ID: Thermo6500 Date: 10/14/2011

Analyte	Wave Length	Zn													
Aluminum															
Antimony															
Arsenic															
Barium															
Beryllium															
Boron															
Cadmium															
Calcium															
Chromium															
Cobalt															
Copper															
Iron															
Lead															
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium															
Tin															
Titanium															
Vanadium															
Zinc															

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Houston Job No: 600-61851-1

SDG No.:

Instrument ID: TJA1 Date: 03/14/2006 13:24

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Cadmium		25	6010B
Lead		50	6010B

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-89798/1-A	09/28/2012 10:05	89798	1.00		50
LCS 600-89798/2-A	09/28/2012 10:05	89798	0.50		50
600-61851-1	09/28/2012 10:05	89798	1.02		50
600-61851-2	09/28/2012 10:05	89798	1.04		50
600-61851-2 DL	09/28/2012 10:05	89798	1.04		50
600-61851-3	09/28/2012 10:05	89798	1.02		50
600-61851-4	09/28/2012 10:05	89798	1.02		50
600-61851-4 DU	09/28/2012 10:05	89798	1.05		50
600-61851-4 MS	09/28/2012 10:05	89798	1.08		50
600-61851-4 MSD	09/28/2012 10:05	89798	1.05		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/28/2012 08:48 End Date: 09/28/2012 14:56

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
RINSE 600-89809/1			08:48																					
RINSE 600-89809/2			08:51																					
ZZZZZZ			08:53																					
ZZZZZZ			08:56																					
CALIBSTD 600-89809/5 IC			08:58	X	X																			
CALIBSTD 600-89809/6 IC			09:00	X	X																			
CALIBSTD 600-89809/7 IC			09:02	X	X																			
CALIBSTD 600-89809/8 IC			09:05	X	X																			
ICV 600-89809/9	1		09:07	X	X																			
ZZZZZZ			09:09																					
ICBIS 600-89809/11	1		09:11	X	X																			
ICSA 600-89809/12	1		09:14	X	X																			
ICSAB 600-89809/13	1		09:16	X	X																			
CCV 600-89809/14			09:18																					
ZZZZZZ			09:21																					
CCB 600-89809/16			09:24																					
ZZZZZZ			09:26																					
ZZZZZZ			09:28																					
ZZZZZZ			09:31																					
ZZZZZZ			09:33																					
ZZZZZZ			09:36																					
ZZZZZZ			09:38																					
CCV 600-89809/23			09:40																					
ZZZZZZ			09:42																					
CCB 600-89809/25			09:45																					
ZZZZZZ			09:47																					
ZZZZZZ			09:50																					
ZZZZZZ			09:52																					
ZZZZZZ			09:54																					
ZZZZZZ			09:57																					
ZZZZZZ			09:59																					
ZZZZZZ			10:01																					
ZZZZZZ			10:04																					
ZZZZZZ			10:06																					
ZZZZZZ			10:08																					
CCV 600-89809/36			10:11																					
ZZZZZZ			10:13																					
CCB 600-89809/38			10:15																					
ZZZZZZ			10:18																					
ZZZZZZ			10:20																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/28/2012 08:48 End Date: 09/28/2012 14:56

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			10:23																					
ZZZZZZ			10:25																					
ZZZZZZ			10:27																					
ZZZZZZ			10:30																					
ZZZZZZ			10:32																					
ZZZZZZ			10:35																					
ZZZZZZ			10:37																					
ZZZZZZ			10:39																					
CCV 600-89809/49			10:42																					
ZZZZZZ			10:44																					
CCB 600-89809/51			10:46																					
ZZZZZZ			10:49																					
ZZZZZZ			10:51																					
ZZZZZZ			10:53																					
ZZZZZZ			10:56																					
ZZZZZZ			10:58																					
ZZZZZZ			11:00																					
ZZZZZZ			11:03																					
ZZZZZZ			11:05																					
ZZZZZZ			11:08																					
ZZZZZZ			11:10																					
CCV 600-89809/62			11:12																					
ZZZZZZ			11:14																					
CCB 600-89809/64			11:17																					
ZZZZZZ			11:19																					
ZZZZZZ			11:22																					
ZZZZZZ			11:24																					
ZZZZZZ			11:26																					
ZZZZZZ			11:29																					
ZZZZZZ			11:31																					
ZZZZZZ			11:33																					
ZZZZZZ			11:36																					
ZZZZZZ			11:38																					
ZZZZZZ			11:41																					
CCV 600-89809/75			11:43																					
ZZZZZZ			11:45																					
CCB 600-89809/77			11:48																					
ZZZZZZ			11:50																					
ZZZZZZ			11:53																					
ZZZZZZ			11:55																					
ZZZZZZ			11:57																					
ZZZZZZ			12:00																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/28/2012 08:48 End Date: 09/28/2012 14:56

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			12:02																					
ZZZZZZ			12:04																					
CCV 600-89809/85			12:07																					
ZZZZZZ			12:09																					
CCB 600-89809/87			12:11																					
ZZZZZZ			13:00																					
ZZZZZZ			13:03																					
ZZZZZZ			13:05																					
ZZZZZZ			13:07																					
ZZZZZZ			13:10																					
ZZZZZZ			13:12																					
ZZZZZZ			13:15																					
ZZZZZZ			13:17																					
ZZZZZZ			13:19																					
ZZZZZZ			13:22																					
CCV 600-89809/98			13:24																					
ZZZZZZ			13:26																					
CCB 600-89809/100			13:29																					
ZZZZZZ			13:31																					
ZZZZZZ			13:33																					
ZZZZZZ			13:36																					
ZZZZZZ			13:38																					
ZZZZZZ			13:41																					
ZZZZZZ			13:43																					
ZZZZZZ			13:45																					
CCV 600-89809/108	1		13:48	X	X																			
ZZZZZZ			13:50																					
CCB 600-89809/110	1		13:52	X	X																			
MB 600-89798/1-A	1	T	14:16	X	X																			
LCS 600-89798/2-A	1	T	14:19	X	X																			
ZZZZZZ			14:21																					
600-61851-4	1	T	14:23	X	X																			
600-61851-4 DU	1	T	14:26	X	X																			
600-61851-4 MS	1	T	14:28	X	X																			
600-61851-4 MSD	1	T	14:31	X	X																			
600-61851-4 PDS	1	T	14:34	X	X																			
600-61851-4 SD	5	T	14:36	X	X																			
ZZZZZZ			14:39																					
CCV 600-89809/121	1		14:41	X	X																			
ZZZZZZ			14:43																					
CCB 600-89809/123	1		14:46	X	X																			
ICSA 600-89809/124	1		14:49	X	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 09/28/2012 08:48 End Date: 09/28/2012 14:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cd	Pb																		
ICSAB 600-89809/125	1		14:52	X	X																		
RINSE 600-89809/126			14:54																				
RINSE 600-89809/127			14:56																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/01/2012 08:38 End Date: 10/01/2012 16:53

Lab Sample ID	D/F	Type	Time	Analytes																					
				Cd	Pb																				
ZZZZZZ			08:38																						
STD 600-89930/2 IC			08:42	X	X																				
ZZZZZZ			08:50																						
ICV 600-89930/4	1		08:54	X	X																				
ICB 600-89930/5	1		08:57	X	X																				
CRI 600-89930/6	1		09:01	X	X																				
ICSA 600-89930/7	1		09:05	X	X																				
ICSAB 600-89930/8	1		09:09	X	X																				
CCV 600-89930/9			09:13																						
CCB 600-89930/10			09:17																						
ZZZZZZ			09:23																						
ZZZZZZ			09:27																						
ZZZZZZ			09:31																						
ZZZZZZ			09:34																						
ZZZZZZ			09:38																						
ZZZZZZ			09:42																						
ZZZZZZ			09:46																						
ZZZZZZ			09:50																						
ZZZZZZ			09:54																						
ZZZZZZ			09:58																						
CCV 600-89930/21			10:01																						
CCB 600-89930/22			10:05																						
ZZZZZZ			10:09																						
ZZZZZZ			10:13																						
ZZZZZZ			10:17																						
ZZZZZZ			10:21																						
ZZZZZZ			10:25																						
ZZZZZZ			10:29																						
ZZZZZZ			10:33																						
CCV 600-89930/30	1		10:37	X	X																				
CCB 600-89930/31	1		10:40	X	X																				
MB 600-89798/1-A	1	T	10:47	X	X																				
LCS 600-89798/2-A	1	T	10:52	X	X																				
600-61851-1	1	T	10:55	X	X																				
600-61851-2	1	T	10:59	X																					
600-61851-3	1	T	11:03	X	X																				
ZZZZZZ			11:07																						
ZZZZZZ			11:11																						
ZZZZZZ			11:15																						
ZZZZZZ			11:19																						
ZZZZZZ			11:22																						
CCV 600-89930/42	1		11:26	X	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/01/2012 08:38 End Date: 10/01/2012 16:53

Lab Sample ID	D/F	Type	Time	Analytes																					
				Cd	Pb																				
CCB 600-89930/43	1		11:30	X	X																				
ZZZZZZ			11:34																						
ZZZZZZ			11:38																						
ZZZZZZ			11:42																						
ZZZZZZ			11:45																						
ZZZZZZ			11:49																						
ZZZZZZ			11:53																						
ZZZZZZ			11:57																						
ZZZZZZ			12:01																						
ZZZZZZ			12:05																						
ZZZZZZ			12:09																						
CCV 600-89930/54	1		12:13	X	X																				
CCB 600-89930/55	1		12:17	X	X																				
ZZZZZZ			12:21																						
ZZZZZZ			12:25																						
ZZZZZZ			12:29																						
ZZZZZZ			12:33																						
ZZZZZZ			12:37																						
CCV 600-89930/61	1		12:41	X	X																				
CCB 600-89930/62	1		12:45	X	X																				
600-61851-2 DL	20	T	13:24		X																				
ZZZZZZ			13:28																						
ZZZZZZ			13:32																						
CCV 600-89930/66	1		13:36	X	X																				
CCB 600-89930/67	1		13:40	X	X																				
ZZZZZZ			13:48																						
ZZZZZZ			13:52																						
ZZZZZZ			13:56																						
ZZZZZZ			14:00																						
ZZZZZZ			14:04																						
ZZZZZZ			14:08																						
ZZZZZZ			14:12																						
ZZZZZZ			14:15																						
ZZZZZZ			14:20																						
ZZZZZZ			14:24																						
CCV 600-89930/78			14:28																						
CCB 600-89930/79			14:32																						
ZZZZZZ			14:41																						
ZZZZZZ			14:44																						
ZZZZZZ			14:48																						
ZZZZZZ			14:52																						
ZZZZZZ			14:56																						

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/01/2012 08:38 End Date: 10/01/2012 16:53

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			15:00																					
ZZZZZZ			15:04																					
ZZZZZZ			15:07																					
ZZZZZZ			15:11																					
ZZZZZZ			15:15																					
CCV 600-89930/90			15:19																					
CCB 600-89930/91			15:23																					
ZZZZZZ			15:29																					
ZZZZZZ			15:33																					
ZZZZZZ			15:37																					
ZZZZZZ			15:41																					
ZZZZZZ			15:45																					
ZZZZZZ			15:49																					
CCV 600-89930/98			15:53																					
CCB 600-89930/99			15:57																					
ZZZZZZ			16:02																					
ZZZZZZ			16:06																					
ZZZZZZ			16:10																					
ZZZZZZ			16:14																					
ZZZZZZ			16:18																					
ZZZZZZ			16:22																					
ZZZZZZ			16:26																					
ZZZZZZ			16:30																					
ZZZZZZ			16:34																					
ZZZZZZ			16:38																					
CCV 600-89930/110			16:42																					
CCB 600-89930/111			16:46																					
ICSA 600-89930/112			16:49																					
ICSAB 600-89930/113			16:53																					

Prep Types

T = Total/NA

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 8:48:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0011,490.3, -.0010, .0005
Al3082,308.215 {109},In2306,ppm, -.0138,.0165,118.9, -.0255, -.0022
As1890,189.042 {478},Y_2243,ppm, -.0030,.0014,45.72, -.0020, -.0040
B_2496,249.678 {135},Y_3710,ppm, .0006,.0004,64.86, .0003, .0009
Ba4554,455.403 { 74},Y_3710,ppm, -.0002,.0000,5.401, -.0002, -.0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,36.71, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0160,.0009,5.733, .0166, .0153
Ca3181,318.128 {106},In2306,ppm, .0132,.0017,12.59, .0143, .0120
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,26.78, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0003,437.2, -.0001, .0002
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0002,66.13, -.0004, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0071,.0002,3.216, .0073, .0070
Fe2404,240.488 {140},In2306,ppm, -.0013,.0036,269.0, -.0039, .0012
K_7664,766.490 { 44},Y_3710,ppm, .0092,.0104,113.0, .0165, .0018
K_7698,769.896 { 44},Y_3710,ppm, .0144,.0317,219.8, -.0080, .0368
Li6707,670.784 { 50},Y_3710,ppm, .0012,.0007,57.48, .0018, .0007
Mg2790,279.079 {121},Y_3710,ppm, .0018,.0029,161.0, .0039, -.0003
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,82.31, -.0001, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0011,.0003,28.73, -.0013, -.0008
Mo2020,202.030 {467},Y_2243,ppm, .0030,.0002,7.367, .0029, .0032
Na5895,589.592 { 57},Y_3710,ppm, .0139,.0016,11.28, .0150, .0128
Na8183,818.326 { 41},Y_3710,ppm, .0270,.2694,996.4, -.1635, .2176
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,31.03, .0005, .0003
P_1782,178.284 {489},In2306,ppm, -.0021,.0009,44.48, -.0015, -.0028
Pb2203,220.353 {453},In2306,ppm, .0003,.0006,173.8, .0008, -.0001
S_1820,182.034 {485},Y_2243,ppm, .1878,.0238,12.67, .1710, .2046
Sb2068,206.833 {463},Y_2243,ppm, .0077,.0019,24.57, .0064, .0091
Se1960,196.090 {472},Y_2243,ppm, -.0007,.0006,86.47, -.0011, -.0003
Si2516,251.611 {134},Y_3710,ppm, .0029,.0011,37.23, .0036, .0021
Sn1899,189.989 {477},In2306,ppm, -.0009,.0015,173.3, .0002, -.0019
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0002,1439., .0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0004,773.1, -.0003, .0002
Tl1908,190.856 {477},In2306,ppm, .0028,.0015,53.91, .0017, .0039
V_2924,292.402 {115},Y_3600,ppm, .0000,.0000,96.84, .0000, .0000
Zn2062,206.200 {463},In2306,ppm, .0140,.0004,2.619, .0143, .0137

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 991.04,9.4285,.95137,984.38,997.71
In2306,230.606 {446},Cts/S, 11816.,250.01,2.1158,11640.,11993.
Y_2243,224.306 {450},Cts/S, 19617.,429.28,2.1883,19313.,19921.
Y_3600,360.073 { 94},Cts/S, 189690.,899.77,.47434,189050.,190320.
Y_3710,371.030 { 91},Cts/S, 49207.,459.74,.93430,48882.,49532.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)

SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 8:51:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0012,.0008,60.85, .0007, .0018
Al3082,308.215 {109},In2306,ppm, -.0120,.0056,47.02, -.0160, -.0080
As1890,189.042 {478},Y_2243,ppm, -.0024,.0002,9.822, -.0026, -.0023
B_2496,249.678 {135},Y_3710,ppm, -.0033,.0003,8.484, -.0035, -.0031
Ba4554,455.403 { 74},Y_3710,ppm, -.0002,.0000,5.919, -.0001, -.0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,67.60, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, .0103,.0091,88.39, .0039, .0167
Ca3181,318.128 {106},In2306,ppm, .0201,.0059,29.42, .0243, .0159
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0001,63.11, .0001, .0002
Co2286,228.616 {447},In2306,ppm, .0000,.0001,1674., -.0001, .0001
Cr2677,267.716 {126},Y_3600,ppm, -.0001,.0002,171.9, .0000, -.0003
Cu3247,324.754 {104},Y_3600,ppm, .0070,.0005,6.783, .0074, .0067
Fe2404,240.488 {140},In2306,ppm, .0014,.0018,134.0, .0001, .0027
K_7664,766.490 { 44},Y_3710,ppm, .0094,.0033,34.76, .0118, .0071
K_7698,769.896 { 44},Y_3710,ppm, .0123,.0320,260.2, .0349, -.0103
Li6707,670.784 { 50},Y_3710,ppm, .0002,.0010,513.5, -.0005, .0009
Mg2790,279.079 {121},Y_3710,ppm, .0067,.0054,81.19, .0105, .0029
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0002,1646., -.0001, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0009,.0006,66.47, -.0013, -.0005
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0003,299.3, .0003, -.0001
Na5895,589.592 { 57},Y_3710,ppm, .0216,.0064,29.54, .0171, .0261
Na8183,818.326 { 41},Y_3710,ppm, .0787,.0045,5.672, .0818, .0755
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,30.36, .0003, .0005
P_1782,178.284 {489},In2306,ppm, -.0025,.0001,4.212, -.0024, -.0025
Pb2203,220.353 {453},In2306,ppm, .0002,.0007,360.3, .0007, -.0003
S_1820,182.034 {485},Y_2243,ppm, .4055,.1759,43.38, .2811, .5298
Sb2068,206.833 {463},Y_2243,ppm, .0009,.0005,57.35, .0005, .0012
Se1960,196.090 {472},Y_2243,ppm, -.0022,.0012,53.89, -.0014, -.0031
Si2516,251.611 {134},Y_3710,ppm, .0045,.0019,41.83, .0058, .0032
Sn1899,189.989 {477},In2306,ppm, -.0015,.0007,48.25, -.0020, -.0010
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,89.62, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0001,54.14, -.0003, -.0001
Tl1908,190.856 {477},In2306,ppm, .0013,.0015,118.5, .0002, .0024
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0007,762.4, .0004, -.0006
Zn2062,206.200 {463},In2306,ppm, .0016,.0000,.2333, .0016, .0016

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1006.9,29.334,2.9134,986.14,1027.6
In2306,230.606 {446},Cts/S, 11729.,67.257,.57340,11682.,11777.
Y_2243,224.306 {450},Cts/S, 19477.,163.15,.83762,19362.,19593.
Y_3600,360.073 { 94},Cts/S, 185100.,1583.7,.85562,186220.,183980.
Y_3710,371.030 { 91},Cts/S, 49532.,1341.4,2.7081,48584.,50481.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=Blank
Username=admin
Comment=

Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 8:53:44
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0000,.0000,90.58, .0000, -.0001
Al3082,308.215 {109},In2306,Cts/S, .0166,.0025,14.96, .0183, .0148
As1890,189.042 {478},Y_2243,Cts/S, -.0003,.0000,6.249, -.0003, -.0003
B_2496,249.678 {135},Y_3710,Cts/S, .0001,.0000,45.07, .0001, .0001
Ba4554,455.403 { 74},Y_3710,Cts/S, .0008,.0000,3.791, .0008, .0008
Be3130,313.042 {108},Y_3710,Cts/S, -.0003,.0000,11.83, -.0003, -.0003
Ca3158,315.887 {107},In2306,Cts/S, -.0347,.0039,11.25, -.0319, -.0374
Ca3181,318.128 {106},In2306,Cts/S, .0023,.0042,180.1, .0053, -.0006
Cd2288,228.802 {447},Y_2243,Cts/S, .0004,.0001,16.95, .0004, .0005
Co2286,228.616 {447},In2306,Cts/S, -.0005,.0000,2.967, -.0005, -.0005
Cr2677,267.716 {126},Y_3600,Cts/S, .0000,.0000,59.32, .0000, .0000
Cu3247,324.754 {104},Y_3600,Cts/S, .0045,.0000,.3460, .0045, .0045
Fe2404,240.488 {140},In2306,Cts/S, .0007,.0011,143.9, .0000, .0015
K_7664,766.490 { 44},Y_3710,Cts/S, .0002,.0003,159.9, .0004, .0000
K_7698,769.896 { 44},Y_3710,Cts/S, .0049,.0001,2.396, .0048, .0050
Li6707,670.784 { 50},Y_3710,Cts/S, .0001,.0002,118.9, .0000, .0002
Mg2790,279.079 {121},Y_3710,Cts/S, .0000,.0000,416.7, .0000, .0000
Mn2576,257.610 {131},Y_3600,Cts/S, .0000,.0000,3.715, .0000, .0000
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0000,.0000,257.4, .0000, .0000
Mo2020,202.030 {467},Y_2243,Cts/S, .0003,.0000,6.646, .0003, .0003
Na5895,589.592 { 57},Y_3710,Cts/S, .0004,.0004,91.43, .0002, .0007
Na8183,818.326 { 41},Y_3710,Cts/S, -.0004,.0004,100.4, -.0001, -.0007
Ni2316,231.604 {445},In2306,Cts/S, .0000,.0001,298.5, -.0001, .0001
P_1782,178.284 {489},In2306,Cts/S, .0002,.0000,1.792, .0002, .0002
Pb2203,220.353 {453},In2306,Cts/S, -.0003,.0001,32.07, -.0003, -.0004
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0000,6.515, -.0004, -.0004
Sb2068,206.833 {463},Y_2243,Cts/S, .0001,.0000,29.45, .0001, .0001
Se1960,196.090 {472},Y_2243,Cts/S, .0000,.0000,63.45, .0000, -.0001
Si2516,251.611 {134},Y_3710,Cts/S, .0003,.0000,17.53, .0003, .0002
Sn1899,189.989 {477},In2306,Cts/S, .0000,.0000,106.6, .0000, -.0001
Sr4215,421.552 { 80},Y_3710,Cts/S, .0004,.0000,6.425, .0003, .0004
Ti3349,334.904 {101},Y_3600,Cts/S, .0000,.0000,27.55, .0000, .0000
Tl1908,190.856 {477},In2306,Cts/S, -.0001,.0000,39.31, -.0001, -.0001
V_2924,292.402 {115},Y_3600,Cts/S, -.0002,.0000,9.635, -.0002, -.0002
Zn2062,206.200 {463},In2306,Cts/S, .0008,.0001,6.951, .0008, .0007

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 978.03,15.474,1.5822,967.08,988.97
In2306,230.606 {446},Cts/S, 11752.,23.339,.19859,11736.,11769.
Y_2243,224.306 {450},Cts/S, 19558.,81.310,.41574,19501.,19616.
Y_3600,360.073 { 94},Cts/S, 184350.,2481.3,1.3460,186100.,182590.
Y_3710,371.030 { 91},Cts/S, 48174.,754.68,1.5666,47641.,48708.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CalibStd-1
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=

Run Time=9/28/2012 8:56:07
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0020,.0002,9.038, .0021, .0018
Al3082,308.215 {109},In2306,Cts/S, .3817,.0214,5.613, .3665, .3968
As1890,189.042 {478},Y_2243,Cts/S, .0057,.0000,.1063, .0057, .0057
B_2496,249.678 {135},Y_3710,Cts/S, .0027,.0002,7.076, .0025, .0028
Ba4554,455.403 { 74},Y_3710,Cts/S, .2020,.0104,5.173, .1946, .2094
Be3130,313.042 {108},Y_3710,Cts/S, .1366,.0069,5.055, .1317, .1414
Ca3158,315.887 {107},In2306,Cts/S, .6989,.0424,6.064, .6689, .7289
Ca3181,318.128 {106},In2306,Cts/S, .3009,.0158,5.251, .2897, .3121
Cd2288,228.802 {447},Y_2243,Cts/S, .0649,.0003,.5200, .0652, .0647
Co2286,228.616 {447},In2306,Cts/S, .1202,.0004,.3688, .1205, .1199
Cr2677,267.716 {126},Y_3600,Cts/S, .0087,.0005,5.812, .0091, .0083
Cu3247,324.754 {104},Y_3600,Cts/S, .0258,.0011,4.255, .0266, .0250
Fe2404,240.488 {140},In2306,Cts/S, 1.072,.0700,6.529, 1.022, 1.121
K_7664,766.490 { 44},Y_3710,Cts/S, .0172,.0004,2.370, .0169, .0175
K_7698,769.896 { 44},Y_3710,Cts/S, .0123,.0003,2.138, .0121, .0124
Li6707,670.784 { 50},Y_3710,Cts/S, .0443,.0019,4.334, .0430, .0457
Mg2790,279.079 {121},Y_3710,Cts/S, .0056,.0003,4.855, .0054, .0058
Mn2576,257.610 {131},Y_3600,Cts/S, .0236,.0013,5.633, .0246, .0227
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0129,.0008,6.076, .0123, .0134
Mo2020,202.030 {467},Y_2243,Cts/S, .0122,.0001,.5045, .0121, .0122
Na5895,589.592 { 57},Y_3710,Cts/S, .0525,.0026,4.935, .0507, .0544
Na8183,818.326 { 41},Y_3710,Cts/S, .0020,.0003,16.58, .0018, .0022
Ni2316,231.604 {445},In2306,Cts/S, .0693,.0004,.5319, .0695, .0690
P_1782,178.284 {489},In2306,Cts/S, .0063,.0000,.5984, .0063, .0062
Pb2203,220.353 {453},In2306,Cts/S, .0182,.0002,1.302, .0183, .0180
S_1820,182.034 {485},Y_2243,Cts/S, -.0005,.0000,1.700, -.0004, -.0005
Sb2068,206.833 {463},Y_2243,Cts/S, .0059,.0001,1.142, .0059, .0058
Se1960,196.090 {472},Y_2243,Cts/S, .0038,.0001,2.344, .0039, .0038
Si2516,251.611 {134},Y_3710,Cts/S, .0020,.0002,9.275, .0018, .0021
Sn1899,189.989 {477},In2306,Cts/S, .0076,.0001,.7192, .0076, .0075
Sr4215,421.552 { 80},Y_3710,Cts/S, .1596,.0081,5.062, .1539, .1653
Ti3349,334.904 {101},Y_3600,Cts/S, .0152,.0010,6.269, .0158, .0145
Tl1908,190.856 {477},In2306,Cts/S, .0068,.0001,1.828, .0068, .0067
V_2924,292.402 {115},Y_3600,Cts/S, .0133,.0007,5.607, .0138, .0127
Zn2062,206.200 {463},In2306,Cts/S, .1273,.0005,.4113, .1277, .1270

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 966.58,32.626,3.3754,989.65,943.51
In2306,230.606 {446},Cts/S, 11760.,38.104,.32400,11733.,11787.
Y_2243,224.306 {450},Cts/S, 19562.,65.173,.33316,19516.,19608.
Y_3600,360.073 { 94},Cts/S, 192680.,7601.1,3.9449,187310.,198060.
Y_3710,371.030 { 91},Cts/S, 48064.,1631.8,3.3950,49218.,46911.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CalibStd-2
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 8:58:24
Sample Type=Cal
Mode=IR

CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0040,.0001,2.874, .0039, .0041
Al3082,308.215 {109},In2306,Cts/S, .7356,.0110,1.491, .7279, .7434
As1890,189.042 {478},Y_2243,Cts/S, .0114,.0003,2.331, .0112, .0116
B_2496,249.678 {135},Y_3710,Cts/S, .0052,.0001,1.510, .0053, .0052
Ba4554,455.403 { 74},Y_3710,Cts/S, .4003,.0020,.4983, .3989, .4017
Be3130,313.042 {108},Y_3710,Cts/S, .2711,.0003,.1225, .2709, .2714
Ca3158,315.887 {107},In2306,Cts/S, 1.405,.0107,.7648, 1.398, 1.413
Ca3181,318.128 {106},In2306,Cts/S, .5939,.0064,1.077, .5894, .5985
Cd2288,228.802 {447},Y_2243,Cts/S, .1269,.0027,2.093, .1250, .1287
Co2286,228.616 {447},In2306,Cts/S, .2360,.0039,1.648, .2332, .2387
Cr2677,267.716 {126},Y_3600,Cts/S, .0185,.0002,.8899, .0184, .0186
Cu3247,324.754 {104},Y_3600,Cts/S, .0498,.0005,1.079, .0495, .0502
Fe2404,240.488 {140},In2306,Cts/S, 2.097,.0076,.3637, 2.092, 2.102
K_7664,766.490 { 44},Y_3710,Cts/S, .0333,.0001,.1636, .0333, .0333
K_7698,769.896 { 44},Y_3710,Cts/S, .0198,.0001,.5991, .0197, .0199
Li6707,670.784 { 50},Y_3710,Cts/S, .0884,.0006,.6436, .0880, .0888
Mg2790,279.079 {121},Y_3710,Cts/S, .0109,.0000,.2000, .0109, .0109
Mn2576,257.610 {131},Y_3600,Cts/S, .0500,.0006,1.205, .0496, .0505
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0253,.0001,.5815, .0254, .0252
Mo2020,202.030 {467},Y_2243,Cts/S, .0235,.0005,2.009, .0232, .0238
Na5895,589.592 { 57},Y_3710,Cts/S, .1040,.0000,.0301, .1040, .1040
Na8183,818.326 { 41},Y_3710,Cts/S, .0040,.0008,19.98, .0034, .0045
Ni2316,231.604 {445},In2306,Cts/S, .1357,.0025,1.813, .1340, .1374
P_1782,178.284 {489},In2306,Cts/S, .0121,.0003,2.371, .0119, .0123
Pb2203,220.353 {453},In2306,Cts/S, .0364,.0006,1.638, .0359, .0368
S_1820,182.034 {485},Y_2243,Cts/S, -.0005,.0000,1.285, -.0005, -.0005
Sb2068,206.833 {463},Y_2243,Cts/S, .0113,.0003,3.002, .0111, .0116
Se1960,196.090 {472},Y_2243,Cts/S, .0076,.0002,2.452, .0074, .0077
Si2516,251.611 {134},Y_3710,Cts/S, .0036,.0002,4.652, .0034, .0037
Sn1899,189.989 {477},In2306,Cts/S, .0146,.0002,1.164, .0145, .0147
Sr4215,421.552 { 80},Y_3710,Cts/S, .3166,.0001,.0370, .3165, .3167
Ti3349,334.904 {101},Y_3600,Cts/S, .0321,.0005,1.626, .0317, .0325
Tl1908,190.856 {477},In2306,Cts/S, .0135,.0001,1.038, .0134, .0136
V_2924,292.402 {115},Y_3600,Cts/S, .0285,.0003,1.197, .0283, .0288
Zn2062,206.200 {463},In2306,Cts/S, .2487,.0041,1.643, .2458, .2516

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 989.42,8.5879,.86797,983.34,995.49
In2306,230.606 {446},Cts/S, 11979.,159.52,1.3316,12092.,11866.
Y_2243,224.306 {450},Cts/S, 19918.,269.71,1.3541,20108.,19727.
Y_3600,360.073 { 94},Cts/S, 183690.,1736.4,.94529,184920.,182460.
Y_3710,371.030 { 91},Cts/S, 48968.,278.31,.56835,48771.,49164.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CalibStd-3
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:00:39
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0079,.0000,.0088, .0079, .0079
Al3082,308.215 {109},In2306,Cts/S, 1.413,.0781,5.527, 1.358, 1.468
As1890,189.042 {478},Y_2243,Cts/S, .0240,.0002,.9262, .0241, .0238
B_2496,249.678 {135},Y_3710,Cts/S, .0098,.0009,8.742, .0092, .0105
Ba4554,455.403 { 74},Y_3710,Cts/S, .7639,.0576,7.537, .7232, .8046
Be3130,313.042 {108},Y_3710,Cts/S, .5209,.0417,8.008, .4914, .5504
Ca3158,315.887 {107},In2306,Cts/S, 2.739,.2148,7.843, 2.587, 2.891
Ca3181,318.128 {106},In2306,Cts/S, 1.151,.0906,7.873, 1.087, 1.215
Cd2288,228.802 {447},Y_2243,Cts/S, .2610,.0039,1.510, .2638, .2582
Co2286,228.616 {447},In2306,Cts/S, .4907,.0065,1.334, .4954, .4861
Cr2677,267.716 {126},Y_3600,Cts/S, .0358,.0000,.0407, .0358, .0358
Cu3247,324.754 {104},Y_3600,Cts/S, .0914,.0002,.2035, .0913, .0915
Fe2404,240.488 {140},In2306,Cts/S, 4.065,.3305,8.129, 3.832, 4.299
K_7664,766.490 { 44},Y_3710,Cts/S, .0632,.0043,6.821, .0601, .0662
K_7698,769.896 { 44},Y_3710,Cts/S, .0333,.0026,7.871, .0314, .0351
Li6707,670.784 { 50},Y_3710,Cts/S, .1671,.0121,7.243, .1585, .1756
Mg2790,279.079 {121},Y_3710,Cts/S, .0210,.0017,8.007, .0198, .0221
Mn2576,257.610 {131},Y_3600,Cts/S, .0958,.0003,.2679, .0960, .0956
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0485,.0039,7.939, .0458, .0512
Mo2020,202.030 {467},Y_2243,Cts/S, .0478,.0010,2.129, .0486, .0471
Na5895,589.592 { 57},Y_3710,Cts/S, .1978,.0145,7.351, .1875, .2080
Na8183,818.326 { 41},Y_3710,Cts/S, .0081,.0005,6.597, .0077, .0084
Ni2316,231.604 {445},In2306,Cts/S, .2801,.0041,1.454, .2830, .2773
P_1782,178.284 {489},In2306,Cts/S, .0251,.0002,.9369, .0253, .0249
Pb2203,220.353 {453},In2306,Cts/S, .0757,.0012,1.610, .0766, .0749
S_1820,182.034 {485},Y_2243,Cts/S, -.0005,.0000,2.520, -.0005, -.0005
Sb2068,206.833 {463},Y_2243,Cts/S, .0235,.0003,1.427, .0238, .0233
Se1960,196.090 {472},Y_2243,Cts/S, .0156,.0002,1.496, .0157, .0154
Si2516,251.611 {134},Y_3710,Cts/S, .0066,.0005,7.429, .0063, .0070
Sn1899,189.989 {477},In2306,Cts/S, .0300,.0005,1.551, .0304, .0297
Sr4215,421.552 { 80},Y_3710,Cts/S, .6031,.0462,7.657, .5705, .6358
Ti3349,334.904 {101},Y_3600,Cts/S, .0617,.0000,.0096, .0617, .0617
Tl1908,190.856 {477},In2306,Cts/S, .0284,.0005,1.637, .0287, .0281
V_2924,292.402 {115},Y_3600,Cts/S, .0549,.0002,.3764, .0551, .0548
Zn2062,206.200 {463},In2306,Cts/S, .5146,.0074,1.437, .5199, .5094

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1007.6,48.992,4.8623,1042.2,972.94
In2306,230.606 {446},Cts/S, 11599.,112.53,.97019,11519.,11678.
Y_2243,224.306 {450},Cts/S, 19419.,240.90,1.2405,19249.,19590.
Y_3600,360.073 { 94},Cts/S, 188560.,54.782,.02905,188520.,188600.
Y_3710,371.030 { 91},Cts/S, 50585.,2481.7,4.9059,52340.,48830.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CalibStd-4
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:02:51
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0160,.0001,.4695, .0161, .0160

```
Al3082,308.215 {109},In2306,Cts/S, 2.949,.0317,1.075, 2.926, 2.971
As1890,189.042 {478},Y_2243,Cts/S, .0470,.0005,1.034, .0474, .0467
B_2496,249.678 {135},Y_3710,Cts/S, .0205,.0001,.4984, .0204, .0206
Ba4554,455.403 { 74},Y_3710,Cts/S, 1.585,.0152,.9600, 1.574, 1.596
Be3130,313.042 {108},Y_3710,Cts/S, 1.076,.0082,.7584, 1.070, 1.082
Ca3158,315.887 {107},In2306,Cts/S, 5.701,.0425,.7448, 5.671, 5.731
Ca3181,318.128 {106},In2306,Cts/S, 2.414,.0072,.2966, 2.409, 2.419
Cd2288,228.802 {447},Y_2243,Cts/S, .5100,.0030,.5919, .5122, .5079
Co2286,228.616 {447},In2306,Cts/S, .9601,.0030,.3123, .9623, .9580
Cr2677,267.716 {126},Y_3600,Cts/S, .0715,.0001,.2036, .0714, .0716
Cu3247,324.754 {104},Y_3600,Cts/S, .1797,.0006,.3115, .1793, .1801
Fe2404,240.488 {140},In2306,Cts/S, 8.483,.0847,.9989, 8.423, 8.543
K_7664,766.490 { 44},Y_3710,Cts/S, .1304,.0001,.0404, .1305, .1304
K_7698,769.896 { 44},Y_3710,Cts/S, .0644,.0001,.1499, .0645, .0643
Li6707,670.784 { 50},Y_3710,Cts/S, .3456,.0028,.8094, .3437, .3476
Mg2790,279.079 {121},Y_3710,Cts/S, .0434,.0001,.3107, .0433, .0435
Mn2576,257.610 {131},Y_3600,Cts/S, .1922,.0003,.1606, .1920, .1924
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0996,.0014,1.379, .0986, .1005
Mo2020,202.030 {467},Y_2243,Cts/S, .0933,.0008,.8829, .0939, .0927
Na5895,589.592 { 57},Y_3710,Cts/S, .4101,.0015,.3678, .4091, .4112
Na8183,818.326 { 41},Y_3710,Cts/S, .0172,.0001,.6439, .0171, .0173
Ni2316,231.604 {445},In2306,Cts/S, .5453,.0019,.3447, .5467, .5440
P_1782,178.284 {489},In2306,Cts/S, .0495,.0000,.0147, .0495, .0495
Pb2203,220.353 {453},In2306,Cts/S, .1478,.0006,.3988, .1482, .1474
S_1820,182.034 {485},Y_2243,Cts/S, -.0005,.0000,3.085, -.0005, -.0005
Sb2068,206.833 {463},Y_2243,Cts/S, .0465,.0004,.8134, .0468, .0462
Se1960,196.090 {472},Y_2243,Cts/S, .0306,.0001,.3756, .0307, .0306
Si2516,251.611 {134},Y_3710,Cts/S, .0136,.0001,.9575, .0135, .0137
Sn1899,189.989 {477},In2306,Cts/S, .0588,.0005,.8213, .0592, .0585
Sr4215,421.552 { 80},Y_3710,Cts/S, 1.251,.0142,1.138, 1.241, 1.261
Ti3349,334.904 {101},Y_3600,Cts/S, .1238,.0001,.0818, .1239, .1238
Tl1908,190.856 {477},In2306,Cts/S, .0564,.0003,.5199, .0566, .0562
V_2924,292.402 {115},Y_3600,Cts/S, .1106,.0001,.0646, .1107, .1106
Zn2062,206.200 {463},In2306,Cts/S, 1.001,.0006,.0645, 1.002, 1.001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 966.73,7.6854,.79499,961.30,972.17
In2306,230.606 {446},Cts/S, 11723.,16.690,.14236,11712.,11735.
Y_2243,224.306 {450},Cts/S, 19672.,96.315,.48962,19603.,19740.
Y_3600,360.073 { 94},Cts/S, 186480.,160.13,.08587,186370.,186600.
Y_3710,371.030 { 91},Cts/S, 49158.,387.72,.78872,48884.,49433.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CalibStd-5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:05:00
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0324,.0001,.2153, .0324, .0325
Al3082,308.215 {109},In2306,Cts/S, 6.025,.2182,3.621, 6.179, 5.870
As1890,189.042 {478},Y_2243,Cts/S, .0959,.0027,2.848, .0940, .0979
B_2496,249.678 {135},Y_3710,Cts/S, .0418,.0013,3.170, .0427, .0408
```

Ba4554,455.403 { 74},Y_3710,Cts/S, 3.242,.1277,3.940, 3.332, 3.152
Be3130,313.042 {108},Y_3710,Cts/S, 2.201,.0898,4.078, 2.265, 2.138
Ca3158,315.887 {107},In2306,Cts/S, 11.64,.4866,4.180, 11.99, 11.30
Ca3181,318.128 {106},In2306,Cts/S, 4.929,.2110,4.281, 5.078, 4.780
Cd2288,228.802 {447},Y_2243,Cts/S, 1.034,.0282,2.724, 1.014, 1.054
Co2286,228.616 {447},In2306,Cts/S, 1.940,.0573,2.952, 1.900, 1.981
Cr2677,267.716 {126},Y_3600,Cts/S, .1448,.0001,.0508, .1447, .1448
Cu3247,324.754 {104},Y_3600,Cts/S, .3643,.0001,.0321, .3642, .3644
Fe2404,240.488 {140},In2306,Cts/S, 17.25,.7070,4.099, 17.75, 16.75
K_7664,766.490 { 44},Y_3710,Cts/S, .2653,.0118,4.445, .2736, .2569
K_7698,769.896 { 44},Y_3710,Cts/S, .1252,.0060,4.758, .1294, .1210
Li6707,670.784 { 50},Y_3710,Cts/S, .6973,.0299,4.288, .7184, .6762
Mg2790,279.079 {121},Y_3710,Cts/S, .0889,.0039,4.421, .0917, .0861
Mn2576,257.610 {131},Y_3600,Cts/S, .3876,.0002,.0389, .3875, .3877
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .2008,.0085,4.229, .2068, .1948
Mo2020,202.030 {467},Y_2243,Cts/S, .1864,.0055,2.945, .1825, .1903
Na5895,589.592 { 57},Y_3710,Cts/S, .8324,.0366,4.393, .8583, .8066
Na8183,818.326 { 41},Y_3710,Cts/S, .0348,.0014,4.069, .0358, .0338
Ni2316,231.604 {445},In2306,Cts/S, 1.097,.0316,2.884, 1.075, 1.120
P_1782,178.284 {489},In2306,Cts/S, .1002,.0022,2.198, .0986, .1017
Pb2203,220.353 {453},In2306,Cts/S, .2996,.0085,2.828, .2937, .3056
Sb2068,206.833 {463},Y_2243,Cts/S, .0936,.0027,2.876, .0917, .0955
Se1960,196.090 {472},Y_2243,Cts/S, .0622,.0019,2.981, .0609, .0635
Si2516,251.611 {134},Y_3710,Cts/S, .0276,.0008,2.982, .0282, .0270
Sn1899,189.989 {477},In2306,Cts/S, .1192,.0032,2.708, .1169, .1214
Sr4215,421.552 { 80},Y_3710,Cts/S, 2.561,.1054,4.115, 2.635, 2.486
Ti3349,334.904 {101},Y_3600,Cts/S, .2519,.0006,.2412, .2515, .2524
Tl1908,190.856 {477},In2306,Cts/S, .1142,.0032,2.759, .1119, .1164
V_2924,292.402 {115},Y_3600,Cts/S, .2266,.0008,.3355, .2261, .2272
Zn2062,206.200 {463},In2306,Cts/S, 2.017,.0618,3.065, 1.973, 2.060

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 948.19,39.262,4.1407,920.43,975.95
In2306,230.606 {446},Cts/S, 11550.,265.51,2.2988,11737.,11362.
Y_2243,224.306 {450},Cts/S, 19442.,421.71,2.1691,19740.,19144.
Y_3600,360.073 { 94},Cts/S, 181420.,811.92,.44754,181990.,180850.
Y_3710,371.030 { 91},Cts/S, 48229.,2069.5,4.2909,46766.,49692.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:07:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2382,.0010,.4300, .2375, .2390
Al3082,308.215 {109},In2306,ppm, 2.514,.1393,5.543, 2.415, 2.612
As1890,189.042 {478},Y_2243,ppm, .4871,.0078,1.609, .4815, .4926
B_2496,249.678 {135},Y_3710,ppm, .5072,.0220,4.331, .4916, .5227
Ba4554,455.403 { 74},Y_3710,ppm, .5005,.0226,4.507, .4845, .5164
Be3130,313.042 {108},Y_3710,ppm, .5100,.0225,4.409, .4941, .5259
Ca3158,315.887 {107},In2306,ppm, 12.45,.6071,4.878, 12.02, 12.87
Ca3181,318.128 {106},In2306,ppm, 12.54,.6087,4.853, 12.11, 12.97

```
Cd2288,228.802 {447},Y_2243,ppm, .4866,.0020,.4019, .4852, .4880
Co2286,228.616 {447},In2306,ppm, .4937,.0005,.1037, .4933, .4940
Cr2677,267.716 {126},Y_3600,ppm, .4825,.0088,1.814, .4763, .4887
Cu3247,324.754 {104},Y_3600,ppm, .4774,.0076,1.586, .4720, .4828
Fe2404,240.488 {140},In2306,ppm, 2.537,.1298,5.116, 2.445, 2.629
K_7664,766.490 { 44},Y_3710,ppm, 12.69,.3582,2.823, 12.44, 12.94
K_7698,769.896 { 44},Y_3710,ppm, 12.69,.4351,3.428, 12.39, 13.00
Li6707,670.784 { 50},Y_3710,ppm, .5093,.0207,4.061, .4947, .5239
Mg2790,279.079 {121},Y_3710,ppm, 5.072,.2388,4.709, 4.903, 5.241
Mn2576,257.610 {131},Y_3600,ppm, .4787,.0066,1.369, .4741, .4833
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5037,.0189,3.751, .4903, .5171
Mo2020,202.030 {467},Y_2243,ppm, .4971,.0013,.2638, .4980, .4961
Na5895,589.592 { 57},Y_3710,ppm, 12.71,.4784,3.762, 12.38, 13.05
Na8183,818.326 { 41},Y_3710,ppm, 12.47,.4579,3.670, 12.15, 12.80
Ni2316,231.604 {445},In2306,ppm, .4903,.0011,.2323, .4895, .4911
P_1782,178.284 {489},In2306,ppm, .4905,.0043,.8765, .4875, .4935
Pb2203,220.353 {453},In2306,ppm, .4863,.0024,.4849, .4846, .4880
S_1820,182.034 {485},Y_2243,ppm, -203.2,.1514,.0745, -203.3, -203.1
Sb2068,206.833 {463},Y_2243,ppm, .4902,.0014,.2834, .4892, .4912
Se1960,196.090 {472},Y_2243,ppm, .4874,.0006,.1293, .4878, .4870
Si2516,251.611 {134},Y_3710,ppm, .9937,.0313,3.146, .9716, 1.016
Sn1899,189.989 {477},In2306,ppm, .4966,.0040,.8066, .4938, .4994
Sr4215,421.552 { 80},Y_3710,ppm, .2535,.0113,4.461, .2455, .2615
Ti3349,334.904 {101},Y_3600,ppm, .4858,.0078,1.596, .4804, .4913
Tl1908,190.856 {477},In2306,ppm, .4959,.0027,.5448, .4940, .4978
V_2924,292.402 {115},Y_3600,ppm, .4868,.0073,1.490, .4817, .4920
Zn2062,206.200 {463},In2306,ppm, .4922,.0011,.2230, .4914, .4930

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 955.23,26.329,2.7563,973.85,936.61
In2306,230.606 {446},Cts/S, 11754.,13.318,.11331,11763.,11745.
Y_2243,224.306 {450},Cts/S, 19690.,44.785,.22745,19722.,19658.
Y_3600,360.073 { 94},Cts/S, 187450.,2597.3,1.3856,189290.,185620.
Y_3710,371.030 { 91},Cts/S, 47922.,899.79,1.8776,48558.,47286.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLICV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:09:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0056,.0007,11.83, .0060, .0051
Al3082,308.215 {109},In2306,ppm, .0917,.0061,6.623, .0874, .0960
As1890,189.042 {478},Y_2243,ppm, .0106,.0016,15.55, .0094, .0117
B_2496,249.678 {135},Y_3710,ppm, .0130,.0007,5.069, .0125, .0135
Ba4554,455.403 { 74},Y_3710,ppm, .0104,.0002,1.901, .0102, .0105
Be3130,313.042 {108},Y_3710,ppm, .0052,.0000,.2096, .0053, .0052
Ca3158,315.887 {107},In2306,ppm, .1008,.0037,3.634, .0983, .1034
Ca3181,318.128 {106},In2306,ppm, .0749,.0074,9.914, .0696, .0801
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0003,6.317, .0048, .0053
Co2286,228.616 {447},In2306,ppm, .0103,.0005,4.463, .0100, .0106
Cr2677,267.716 {126},Y_3600,ppm, .0114,.0014,12.06, .0124, .0105
```

```
Cu3247,324.754 {104},Y_3600,ppm, .0101,.0015,14.42, .0112, .0091
Fe2404,240.488 {140},In2306,ppm, .1024,.0031,3.016, .1046, .1002
K_7664,766.490 { 44},Y_3710,ppm, .6154,.0003,.0422, .6152, .6156
K_7698,769.896 { 44},Y_3710,ppm, .5748,.0281,4.881, .5549, .5946
Li6707,670.784 { 50},Y_3710,ppm, .0104,.0021,20.18, .0089, .0119
Mg2790,279.079 {121},Y_3710,ppm, .1000,.0158,15.78, .1111, .0888
Mn2576,257.610 {131},Y_3600,ppm, .0108,.0015,13.51, .0118, .0098
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0107,.0001,.5849, .0107, .0108
Mo2020,202.030 {467},Y_2243,ppm, .0114,.0009,7.878, .0107, .0120
Na5895,589.592 { 57},Y_3710,ppm, .5935,.0039,.6631, .5963, .5907
Na8183,818.326 { 41},Y_3710,ppm, .8025,.1211,15.10, .7168, .8881
Ni2316,231.604 {445},In2306,ppm, .0103,.0004,4.118, .0100, .0106
P_1782,178.284 {489},In2306,ppm, .0089,.0012,13.36, .0080, .0097
Pb2203,220.353 {453},In2306,ppm, .0102,.0004,3.932, .0099, .0105
S_1820,182.034 {485},Y_2243,ppm, .3452,.2307,66.84, .1820, .5083
Sb2068,206.833 {463},Y_2243,ppm, .0118,.0024,20.02, .0102, .0135
Se1960,196.090 {472},Y_2243,ppm, .0109,.0004,3.571, .0112, .0107
Si2516,251.611 {134},Y_3710,ppm, .0148,.0005,3.045, .0145, .0151
Sn1899,189.989 {477},In2306,ppm, .0101,.0004,4.410, .0098, .0104
Sr4215,421.552 { 80},Y_3710,ppm, .0052,.0001,1.177, .0051, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0110,.0011,10.10, .0118, .0102
Tl1908,190.856 {477},In2306,ppm, .0116,.0016,14.11, .0105, .0128
V_2924,292.402 {115},Y_3600,ppm, .0106,.0013,12.71, .0115, .0096
Zn2062,206.200 {463},In2306,ppm, .0104,.0003,3.068, .0102, .0106

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 991.55,.16463,.01660,991.44,991.67
In2306,230.606 {446},Cts/S, 11835.,182.31,1.5405,11964.,11706.
Y_2243,224.306 {450},Cts/S, 19983.,307.46,1.5386,20201.,19766.
Y_3600,360.073 { 94},Cts/S, 179980.,17931.,9.9628,167300.,192660.
Y_3710,371.030 { 91},Cts/S, 48992.,478.58,.97685,48654.,49331.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICBIS
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:11:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0005,457.8, .0005, -.0002
Al3082,308.215 {109},In2306,ppm, -.0083,.0162,195.0, -.0198, .0032
As1890,189.042 {478},Y_2243,ppm, -.0006,.0009,148.9, .0000, -.0012
B_2496,249.678 {135},Y_3710,ppm, -.0006,.0042,731.5, -.0035, .0024
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0000,15.03, -.0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,48.84, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0010,.0006,57.12, .0015, .0006
Ca3181,318.128 {106},In2306,ppm, -.0167,.0115,68.64, -.0248, -.0086
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,43.57, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0001,.0000,35.81, .0001, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0004,171.7, .0005, .0000
Cu3247,324.754 {104},Y_3600,ppm, -.0002,.0004,184.4, .0001, -.0004
Fe2404,240.488 {140},In2306,ppm, .0025,.0025,101.0, .0007, .0043
K_7664,766.490 { 44},Y_3710,ppm, -.0076,.0167,218.7, .0042, -.0195
```

K_7698,769.896 { 44},Y_3710,ppm, -.0022,.0397,1810., -.0303, .0259
Li6707,670.784 { 50},Y_3710,ppm, .0006,.0006,108.8, .0001, .0010
Mg2790,279.079 {121},Y_3710,ppm, .0050,.0074,146.8, -.0002, .0103
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0000,65.50, .0000, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0005,.0003,66.26, -.0002, -.0007
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0003,119.7, .0005, .0000
Na5895,589.592 { 57},Y_3710,ppm, -.0133,.0095,71.63, -.0066, -.0200
Na8183,818.326 { 41},Y_3710,ppm, .0384,.1589,413.7, -.0739, .1508
Ni2316,231.604 {445},In2306,ppm, -.0001,.0001,153.7, .0000, -.0001
P_1782,178.284 {489},In2306,ppm, -.0004,.0006,154.6, .0000, -.0009
Pb2203,220.353 {453},In2306,ppm, -.0001,.0002,142.5, .0000, -.0002
S_1820,182.034 {485},Y_2243,ppm, .0465,.0344,74.05, .0709, .0222
Sb2068,206.833 {463},Y_2243,ppm, .0012,.0002,18.44, .0013, .0010
Se1960,196.090 {472},Y_2243,ppm, -.0001,.0005,460.2, .0003, -.0005
Si2516,251.611 {134},Y_3710,ppm, -.0003,.0072,2173., -.0054, .0047
Sn1899,189.989 {477},In2306,ppm, .0000,.0001,742.8, .0001, -.0001
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,165.9, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0000,30.01, .0001, .0001
Tl1908,190.856 {477},In2306,ppm, .0002,.0001,43.85, .0002, .0003
V_2924,292.402 {115},Y_3600,ppm, .0000,.0000,55.48, .0001, .0000
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,44.48, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 970.67,14.142,1.4570,960.67,980.67
In2306,230.606 {446},Cts/S, 11836.,329.35,2.7827,11603.,12069.
Y_2243,224.306 {450},Cts/S, 19867.,576.59,2.9022,19460.,20275.
Y_3600,360.073 { 94},Cts/S, 190250.,2032.0,1.0681,188810.,191680.
Y_3710,371.030 { 91},Cts/S, 48064.,175.77,.36571,47939.,48188.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:14:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0001,.0003,247.8, .0001, -.0003
Al3082,308.215 {109},In2306,ppm, 531.4,3.529,.6642, 528.9, 533.9
As1890,189.042 {478},Y_2243,ppm, -.0064,.0015,23.09, -.0075, -.0054
B_2496,249.678 {135},Y_3710,ppm, .0013,.0008,58.74, .0008, .0019
Ba4554,455.403 { 74},Y_3710,ppm, .0005,.0001,13.15, .0004, .0005
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,.6141, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 498.5,7.546,1.514, 493.1, 503.8
Ca3181,318.128 {106},In2306,ppm, 500.4,3.725,.7443, 497.8, 503.1
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0000,11.12, .0002, .0003
Co2286,228.616 {447},In2306,ppm, -.0002,.0002,89.53, -.0003, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0031,.0002,6.320, .0033, .0030
Cu3247,324.754 {104},Y_3600,ppm, .0035,.0001,1.706, .0035, .0034
Fe2404,240.488 {140},In2306,ppm, 196.9,1.528,.7761, 195.8, 198.0
K_7664,766.490 { 44},Y_3710,ppm, -.0437,.0113,25.83, -.0516, -.0357
K_7698,769.896 { 44},Y_3710,ppm, -.5213,.0540,10.37, -.5595, -.4831
Li6707,670.784 { 50},Y_3710,ppm, .0179,.0006,3.546, .0174, .0183
Mg2790,279.079 {121},Y_3710,ppm, 498.5,4.632,.9291, 495.3, 501.8

Mn2576,257.610 {131},Y_3600,ppm, -.0049,.0001,2.762, -.0050, -.0048
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0044,.0000,.2056, -.0044, -.0044
Mo2020,202.030 {467},Y_2243,ppm, -.0009,.0014,160.0, .0001, -.0018
Na5895,589.592 { 57},Y_3710,ppm, .0362,.0151,41.64, .0256, .0469
Na8183,818.326 { 41},Y_3710,ppm, .8726,.1105,12.66, .9507, .7944
Ni2316,231.604 {445},In2306,ppm, .0052,.0002,3.098, .0053, .0050
P_1782,178.284 {489},In2306,ppm, .0045,.0030,66.51, .0066, .0024
Pb2203,220.353 {453},In2306,ppm, .0081,.0016,19.85, .0070, .0093
S_1820,182.034 {485},Y_2243,ppm, 17.79,1.299,7.302, 16.87, 18.71
Sb2068,206.833 {463},Y_2243,ppm, -.0109,.0014,13.01, -.0099, -.0119
Se1960,196.090 {472},Y_2243,ppm, .0065,.0014,21.06, .0055, .0075
Si2516,251.611 {134},Y_3710,ppm, .0006,.0006,94.31, .0010, .0002
Sn1899,189.989 {477},In2306,ppm, .0060,.0011,18.32, .0068, .0052
Sr4215,421.552 { 80},Y_3710,ppm, .0022,.0001,5.465, .0021, .0023
Ti3349,334.904 {101},Y_3600,ppm, .0026,.0000,.7184, .0026, .0026
Tl1908,190.856 {477},In2306,ppm, -.0067,.0038,56.06, -.0041, -.0094
V_2924,292.402 {115},Y_3600,ppm, -.0005,.0007,133.4, .0000, -.0010
Zn2062,206.200 {463},In2306,ppm, .0086,.0002,2.034, .0085, .0088

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 891.18,5.8918,.66112,895.35,887.01
In2306,230.606 {446},Cts/S, 9888.3,275.19,2.7830,10083.,9693.7
Y_2243,224.306 {450},Cts/S, 17382.,477.29,2.7459,17719.,17044.
Y_3600,360.073 { 94},Cts/S, 168370.,3501.0,2.0794,165890.,170840.
Y_3710,371.030 { 91},Cts/S, 49204.,306.22,.62235,49420.,48987.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICSAB 969808
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:16:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5509,.0671,12.18, .5983, .5034
Al3082,308.215 {109},In2306,ppm, 553.1,3.564,.6445, 555.6, 550.5
As1890,189.042 {478},Y_2243,ppm, 1.012,.0177,1.749, .9992, 1.024
B_2496,249.678 {135},Y_3710,ppm, .9693,.0136,1.403, .9790, .9597
Ba4554,455.403 { 74},Y_3710,ppm, .9696,.0121,1.253, .9782, .9610
Be3130,313.042 {108},Y_3710,ppm, .4810,.0064,1.340, .4856, .4764
Ca3158,315.887 {107},In2306,ppm, 505.3,11.90,2.356, 496.9, 513.7
Ca3181,318.128 {106},In2306,ppm, 520.5,4.896,.9406, 523.9, 517.0
Cd2288,228.802 {447},Y_2243,ppm, .5137,.0049,.9611, .5102, .5172
Co2286,228.616 {447},In2306,ppm, .9746,.0092,.9460, .9681, .9811
Cr2677,267.716 {126},Y_3600,ppm, .9273,.1139,12.28, 1.008, .8468
Cu3247,324.754 {104},Y_3600,ppm, 1.047,.1268,12.11, 1.137, .9577
Fe2404,240.488 {140},In2306,ppm, 211.6,1.584,.7485, 212.7, 210.5
K_7664,766.490 { 44},Y_3710,ppm, 10.07,.0874,.8679, 10.13, 10.01
K_7698,769.896 { 44},Y_3710,ppm, 9.729,.1546,1.589, 9.838, 9.619
Li6707,670.784 { 50},Y_3710,ppm, 1.039,.0086,.8277, 1.045, 1.033
Mg2790,279.079 {121},Y_3710,ppm, 518.0,7.936,1.532, 523.7, 512.4
Mn2576,257.610 {131},Y_3600,ppm, .9390,.1138,12.12, 1.019, .8585
Mn2576-2,257.610 {131}2,Y_3710,ppm, .9370,.0129,1.373, .9461, .9279
Mo2020,202.030 {467},Y_2243,ppm, .9832,.0054,.5497, .9793, .9870

Na5895,589.592 { 57},Y_3710,ppm, 10.20,.0771,.7557, 10.26, 10.15
Na8183,818.326 { 41},Y_3710,ppm, 10.62,.0873,.8217, 10.69, 10.56
Ni2316,231.604 {445},In2306,ppm, .9699,.0061,.6332, .9656, .9742
P_1782,178.284 {489},In2306,ppm, 1.056,.0009,.0857, 1.057, 1.055
Pb2203,220.353 {453},In2306,ppm, .9939,.0073,.7314, .9887, .9990
S_1820,182.034 {485},Y_2243,ppm, 18.23,.0870,.4773, 18.17, 18.29
Sb2068,206.833 {463},Y_2243,ppm, .9935,.0096,.9669, .9867, 1.000
Se1960,196.090 {472},Y_2243,ppm, 1.006,.0139,1.386, .9961, 1.016
Si2516,251.611 {134},Y_3710,ppm, .9696,.0179,1.849, .9823, .9569
Sn1899,189.989 {477},In2306,ppm, 1.016,.0069,.6818, 1.011, 1.021
Sr4215,421.552 { 80},Y_3710,ppm, .4943,.0050,1.016, .4978, .4907
Ti3349,334.904 {101},Y_3600,ppm, .9744,.1176,12.07, 1.058, .8912
Tl1908,190.856 {477},In2306,ppm, .9665,.0036,.3766, .9640, .9691
V_2924,292.402 {115},Y_3600,ppm, .9470,.1150,12.14, 1.028, .8657
Zn2062,206.200 {463},In2306,ppm, .9429,.0061,.6475, .9386, .9472

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 866.90,11.524,1.3294,858.75,875.05
In2306,230.606 {446},Cts/S, 10028.,90.925,.90668,10093.,9964.0
Y_2243,224.306 {450},Cts/S, 17607.,162.09,.92062,17721.,17492.
Y_3600,360.073 { 94},Cts/S, 165570.,16219.,9.7957,154100.,177040.
Y_3710,371.030 { 91},Cts/S, 48053.,910.34,1.8944,47410.,48697.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:18:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2496,.0167,6.698, .2378, .2615
Al3082,308.215 {109},In2306,ppm, 2.483,.1080,4.350, 2.559, 2.407
As1890,189.042 {478},Y_2243,ppm, .4958,.0250,5.043, .5135, .4781
B_2496,249.678 {135},Y_3710,ppm, .4825,.0085,1.764, .4885, .4765
Ba4554,455.403 { 74},Y_3710,ppm, .4720,.0141,2.981, .4820, .4621
Be3130,313.042 {108},Y_3710,ppm, .4857,.0134,2.751, .4952, .4763
Ca3158,315.887 {107},In2306,ppm, 12.25,.4214,3.441, 12.55, 11.95
Ca3181,318.128 {106},In2306,ppm, 12.16,.4141,3.407, 12.45, 11.86
Cd2288,228.802 {447},Y_2243,ppm, .4848,.0290,5.982, .5053, .4643
Co2286,228.616 {447},In2306,ppm, .4908,.0282,5.746, .5108, .4709
Cr2677,267.716 {126},Y_3600,ppm, .5010,.0352,7.026, .4761, .5259
Cu3247,324.754 {104},Y_3600,ppm, .4870,.0319,6.545, .4644, .5095
Fe2404,240.488 {140},In2306,ppm, 2.504,.0909,3.632, 2.568, 2.439
K_7664,766.490 { 44},Y_3710,ppm, 12.00,.3869,3.223, 12.28, 11.73
K_7698,769.896 { 44},Y_3710,ppm, 12.14,.4291,3.534, 12.45, 11.84
Li6707,670.784 { 50},Y_3710,ppm, .4813,.0128,2.665, .4904, .4723
Mg2790,279.079 {121},Y_3710,ppm, 4.953,.1567,3.163, 5.064, 4.842
Mn2576,257.610 {131},Y_3600,ppm, .4992,.0369,7.390, .4732, .5253
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4901,.0147,3.001, .5005, .4797
Mo2020,202.030 {467},Y_2243,ppm, .5038,.0284,5.638, .5238, .4837
Na5895,589.592 { 57},Y_3710,ppm, 12.08,.3689,3.055, 12.34, 11.82
Na8183,818.326 { 41},Y_3710,ppm, 11.97,.6171,5.155, 12.41, 11.53
Ni2316,231.604 {445},In2306,ppm, .4904,.0285,5.822, .5106, .4702

```
P_1782,178.284 {489},In2306,ppm, .4899,.0314,6.415, .5121, .4677
Pb2203,220.353 {453},In2306,ppm, .4893,.0302,6.175, .5106, .4679
S_1820,182.034 {485},Y_2243,ppm, -206.6,11.79,5.710, -214.9, -198.2
Sb2068,206.833 {463},Y_2243,ppm, .4986,.0295,5.910, .5194, .4777
Se1960,196.090 {472},Y_2243,ppm, .4933,.0266,5.400, .5121, .4745
Si2516,251.611 {134},Y_3710,ppm, .9475,.0280,2.959, .9674, .9277
Sn1899,189.989 {477},In2306,ppm, .5015,.0310,6.173, .5234, .4796
Sr4215,421.552 { 80},Y_3710,ppm, .2424,.0072,2.982, .2475, .2372
Ti3349,334.904 {101},Y_3600,ppm, .5016,.0376,7.490, .4751, .5282
Tl1908,190.856 {477},In2306,ppm, .4948,.0277,5.607, .5144, .4752
V_2924,292.402 {115},Y_3600,ppm, .4997,.0340,6.808, .4756, .5237
Zn2062,206.200 {463},In2306,ppm, .4893,.0285,5.819, .5094, .4691

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 981.40,34.726,3.5384,956.85,1006.0
In2306,230.606 {446},Cts/S, 11861.,524.47,4.4218,11490.,12232.
Y_2243,224.306 {450},Cts/S, 19692.,891.74,4.5285,19061.,20322.
Y_3600,360.073 { 94},Cts/S, 185480.,11219.,6.0488,193410.,177550.
Y_3710,371.030 { 91},Cts/S, 49931.,1434.4,2.8727,48916.,50945.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:21:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0043,.0005,12.35, .0039, .0047
Al3082,308.215 {109},In2306,ppm, .1064,.0079,7.471, .1008, .1120
As1890,189.042 {478},Y_2243,ppm, .0110,.0002,1.524, .0108, .0111
B_2496,249.678 {135},Y_3710,ppm, .0130,.0004,2.799, .0133, .0127
Ba4554,455.403 { 74},Y_3710,ppm, .0101,.0007,6.935, .0096, .0106
Be3130,313.042 {108},Y_3710,ppm, .0051,.0003,6.096, .0049, .0053
Ca3158,315.887 {107},In2306,ppm, .1074,.0046,4.266, .1042, .1107
Ca3181,318.128 {106},In2306,ppm, .0608,.0096,15.85, .0540, .0676
Cd2288,228.802 {447},Y_2243,ppm, .0050,.0003,5.148, .0048, .0052
Co2286,228.616 {447},In2306,ppm, .0098,.0002,2.509, .0096, .0100
Cr2677,267.716 {126},Y_3600,ppm, .0098,.0003,2.744, .0097, .0100
Cu3247,324.754 {104},Y_3600,ppm, .0098,.0004,3.601, .0101, .0096
Fe2404,240.488 {140},In2306,ppm, .1031,.0059,5.704, .0989, .1073
K_7664,766.490 { 44},Y_3710,ppm, .5660,.0206,3.649, .5513, .5806
K_7698,769.896 { 44},Y_3710,ppm, .5643,.0424,7.510, .5343, .5942
Li6707,670.784 { 50},Y_3710,ppm, .0108,.0004,3.658, .0105, .0111
Mg2790,279.079 {121},Y_3710,ppm, .1104,.0144,13.01, .1003, .1206
Mn2576,257.610 {131},Y_3600,ppm, .0097,.0001,.9420, .0098, .0097
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0105,.0005,4.598, .0102, .0108
Mo2020,202.030 {467},Y_2243,ppm, .0115,.0012,10.61, .0106, .0124
Na5895,589.592 { 57},Y_3710,ppm, .5899,.0304,5.150, .5684, .6113
Na8183,818.326 { 41},Y_3710,ppm, .7210,.0081,1.118, .7153, .7267
Ni2316,231.604 {445},In2306,ppm, .0101,.0008,7.542, .0095, .0106
P_1782,178.284 {489},In2306,ppm, .0084,.0002,1.891, .0085, .0083
Pb2203,220.353 {453},In2306,ppm, .0097,.0002,1.883, .0096, .0099
S_1820,182.034 {485},Y_2243,ppm, .2587,.2042,78.94, .1143, .4031
```

```
Sb2068,206.833 {463},Y_2243,ppm, .0123,.0002,1.638, .0125, .0122
Se1960,196.090 {472},Y_2243,ppm, .0102,.0013,12.88, .0093, .0111
Si2516,251.611 {134},Y_3710,ppm, .0119,.0103,86.50, .0192, .0046
Sn1899,189.989 {477},In2306,ppm, .0095,.0016,17.15, .0084, .0107
Sr4215,421.552 { 80},Y_3710,ppm, .0050,.0001,2.534, .0049, .0051
Ti3349,334.904 {101},Y_3600,ppm, .0099,.0000,.2134, .0100, .0099
Tl1908,190.856 {477},In2306,ppm, .0114,.0025,22.08, .0096, .0132
V_2924,292.402 {115},Y_3600,ppm, .0096,.0001,1.081, .0096, .0097
Zn2062,206.200 {463},In2306,ppm, .0101,.0004,4.174, .0098, .0104

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 992.39,32.384,3.2633,1015.3,969.49
In2306,230.606 {446},Cts/S, 12049.,284.13,2.3581,12250.,11848.
Y_2243,224.306 {450},Cts/S, 20050.,518.13,2.5842,20416.,19683.
Y_3600,360.073 { 94},Cts/S, 196310.,1743.4,.88811,197540.,195080.
Y_3710,371.030 { 91},Cts/S, 49495.,2017.2,4.0756,50922.,48069.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:24:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0001,13.69, .0004, .0004
Al3082,308.215 {109},In2306,ppm, -.0062,.0011,17.30, -.0054, -.0069
As1890,189.042 {478},Y_2243,ppm, .0000,.0000,66.45, .0000, .0000
B_2496,249.678 {135},Y_3710,ppm, -.0006,.0012,201.6, .0003, -.0015
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,270.1, -.0001, .0000
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,53.85, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0095,.0090,94.19, .0159, .0032
Ca3181,318.128 {106},In2306,ppm, -.0166,.0180,108.5, -.0039, -.0294
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,58.75, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,19.36, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0002,82.40, .0004, .0001
Cu3247,324.754 {104},Y_3600,ppm, .0001,.0002,331.8, .0002, -.0001
Fe2404,240.488 {140},In2306,ppm, .0023,.0006,25.51, .0027, .0019
K_7664,766.490 { 44},Y_3710,ppm, -.0194,.0349,179.8, -.0441, .0053
K_7698,769.896 { 44},Y_3710,ppm, .0126,.0277,219.0, -.0069, .0322
Li6707,670.784 { 50},Y_3710,ppm, -.0006,.0007,117.5, -.0012, -.0001
Mg2790,279.079 {121},Y_3710,ppm, -.0034,.0040,118.1, -.0006, -.0062
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0000,157.6, .0000, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0004,.0002,57.23, .0002, .0005
Mo2020,202.030 {467},Y_2243,ppm, .0000,.0002,1233., .0002, -.0001
Na5895,589.592 { 57},Y_3710,ppm, -.0139,.0006,4.099, -.0135, -.0143
Na8183,818.326 { 41},Y_3710,ppm, .0983,.2436,248.0, .2705, -.0740
Ni2316,231.604 {445},In2306,ppm, .0001,.0002,204.6, .0000, .0002
P_1782,178.284 {489},In2306,ppm, -.0004,.0006,175.1, -.0008, .0001
Pb2203,220.353 {453},In2306,ppm, -.0002,.0005,271.9, .0002, -.0005
S_1820,182.034 {485},Y_2243,ppm, .3227,.1917,59.41, .4583, .1871
Sb2068,206.833 {463},Y_2243,ppm, -.0007,.0002,32.53, -.0009, -.0006
Se1960,196.090 {472},Y_2243,ppm, .0014,.0003,20.17, .0012, .0016
Si2516,251.611 {134},Y_3710,ppm, -.0023,.0002,10.39, -.0025, -.0022
```

Sn1899,189.989 {477},In2306,ppm, -.0001,.0008,1282., -.0007, .0005
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,220.8, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0002,.0002,76.86, .0003, .0001
Tl1908,190.856 {477},In2306,ppm, -.0001,.0014,997.3, .0008, -.0011
V_2924,292.402 {115},Y_3600,ppm, -.0006,.0004,62.54, -.0003, -.0009
Zn2062,206.200 {463},In2306,ppm, .0000,.0001,629.3, .0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 963.12,40.535,4.2087,934.46,991.79
In2306,230.606 {446},Cts/S, 11624.,28.070,.24147,11605.,11644.
Y_2243,224.306 {450},Cts/S, 19326.,105.23,.54449,19252.,19400.
Y_3600,360.073 { 94},Cts/S, 193570.,2553.8,1.3193,191770.,195380.
Y_3710,371.030 { 91},Cts/S, 47342.,2271.4,4.7978,45736.,48948.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61650-C-1-B@100
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:26:34
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0010,.0012,116.3, .0002, .0018
Al3082,308.215 {109},In2306,ppm, .5539,.0715,12.91, .5034, .6045
As1890,189.042 {478},Y_2243,ppm, -.0006,.0009,150.7, .0000, -.0012
B_2496,249.678 {135},Y_3710,ppm, -.0050,.0042,83.52, -.0080, -.0021
Ba4554,455.403 { 74},Y_3710,ppm, .0003,.0001,22.81, .0003, .0004
Be3130,313.042 {108},Y_3710,ppm, .0006,.0000,.4146, .0006, .0006
Ca3158,315.887 {107},In2306,ppm, .6819,.0722,10.59, .6309, .7330
Ca3181,318.128 {106},In2306,ppm, .6507,.0684,10.52, .6023, .6991
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,245.4, -.0001, .0000
Co2286,228.616 {447},In2306,ppm, .0118,.0004,3.247, .0115, .0121
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0000,30.22, .0001, .0001
Cu3247,324.754 {104},Y_3600,ppm, -.0006,.0003,50.97, -.0004, -.0009
Fe2404,240.488 {140},In2306,ppm, .4521,.0567,12.55, .4120, .4922
K_7664,766.490 { 44},Y_3710,ppm, .2970,.0131,4.405, .2877, .3062
K_7698,769.896 { 44},Y_3710,ppm, .3147,.0996,31.65, .2443, .3852
Li6707,670.784 { 50},Y_3710,ppm, .0012,.0006,48.04, .0008, .0016
Mg2790,279.079 {121},Y_3710,ppm, .1571,.0130,8.285, .1479, .1663
Mn2576,257.610 {131},Y_3600,ppm, 1.357,.0138,1.021, 1.366, 1.347
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.389,.1499,10.79, 1.283, 1.495
Mo2020,202.030 {467},Y_2243,ppm, -.0002,.0000,19.11, -.0002, -.0003
Na5895,589.592 { 57},Y_3710,ppm, 1.440,.1416,9.829, 1.340, 1.541
Na8183,818.326 { 41},Y_3710,ppm, 1.627,.1676,10.30, 1.508, 1.746
Ni2316,231.604 {445},In2306,ppm, .0011,.0000,.1040, .0011, .0011
P_1782,178.284 {489},In2306,ppm, -.0006,.0001,11.17, -.0007, -.0006
Pb2203,220.353 {453},In2306,ppm, .0003,.0003,107.3, .0001, .0005
S_1820,182.034 {485},Y_2243,ppm, -564.6,17.26,3.057, -552.4, -576.8
Sb2068,206.833 {463},Y_2243,ppm, -.0003,.0002,50.54, -.0004, -.0002
Se1960,196.090 {472},Y_2243,ppm, .0003,.0011,309.9, -.0004, .0011
Si2516,251.611 {134},Y_3710,ppm, .2269,.0313,13.81, .2048, .2491
Sn1899,189.989 {477},In2306,ppm, -.0002,.0001,65.03, -.0001, -.0003
Sr4215,421.552 { 80},Y_3710,ppm, .0046,.0005,10.02, .0043, .0050
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0000,17.69, .0001, .0001

Tl1908,190.856 {477},In2306,ppm, -.0017,.0009,51.51, -.0024, -.0011
V_2924,292.402 {115},Y_3600,ppm, .0000,.0002,417.6, -.0002, .0001
Zn2062,206.200 {463},In2306,ppm, .0403,.0013,3.327, .0393, .0412

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 980.59,76.340,7.7851,1034.6,926.61
In2306,230.606 {446},Cts/S, 12022.,267.33,2.2237,12211.,11833.
Y_2243,224.306 {450},Cts/S, 20019.,482.70,2.4112,20360.,19678.
Y_3600,360.073 { 94},Cts/S, 189700.,1428.8,.75317,188690.,190710.
Y_3710,371.030 { 91},Cts/S, 48785.,3624.4,7.4294,51348.,46222.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61650-E-2-B@100
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:28:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0012,157.8, .0015, -.0001
Al3082,308.215 {109},In2306,ppm, .1250,.0095,7.591, .1317, .1183
As1890,189.042 {478},Y_2243,ppm, -.0004,.0008,200.5, .0002, -.0010
B_2496,249.678 {135},Y_3710,ppm, -.0019,.0017,88.25, -.0007, -.0031
Ba4554,455.403 { 74},Y_3710,ppm, .0004,.0000,9.554, .0004, .0004
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,145.8, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, .2921,.0046,1.577, .2888, .2953
Ca3181,318.128 {106},In2306,ppm, .2631,.0175,6.669, .2507, .2755
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,4252., .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0013,.0001,6.576, .0013, .0012
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0004,169.8, .0005, .0000
Cu3247,324.754 {104},Y_3600,ppm, -.0001,.0000,2.483, -.0001, -.0001
Fe2404,240.488 {140},In2306,ppm, .3640,.0085,2.339, .3580, .3700
K_7664,766.490 { 44},Y_3710,ppm, .2463,.0060,2.456, .2420, .2506
K_7698,769.896 { 44},Y_3710,ppm, .2842,.0498,17.52, .3194, .2490
Li6707,670.784 { 50},Y_3710,ppm, -.0005,.0000,1.491, -.0005, -.0005
Mg2790,279.079 {121},Y_3710,ppm, .0767,.0006,.7645, .0762, .0771
Mn2576,257.610 {131},Y_3600,ppm, 1.669,.0174,1.045, 1.682, 1.657
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.702,.0548,3.221, 1.663, 1.741
Mo2020,202.030 {467},Y_2243,ppm, -.0004,.0004,98.04, -.0001, -.0007
Na5895,589.592 { 57},Y_3710,ppm, 1.680,.0440,2.618, 1.649, 1.712
Na8183,818.326 { 41},Y_3710,ppm, 1.894,.3043,16.07, 1.679, 2.110
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,26.10, .0004, .0003
P_1782,178.284 {489},In2306,ppm, .0030,.0001,3.703, .0029, .0031
Pb2203,220.353 {453},In2306,ppm, .0000,.0002,534.3, -.0002, .0001
S_1820,182.034 {485},Y_2243,ppm, -488.9,3.037,.6210, -491.1, -486.8
Sb2068,206.833 {463},Y_2243,ppm, -.0024,.0011,45.11, -.0031, -.0016
Se1960,196.090 {472},Y_2243,ppm, .0021,.0012,57.54, .0030, .0013
Si2516,251.611 {134},Y_3710,ppm, .1376,.0034,2.479, .1352, .1401
Sn1899,189.989 {477},In2306,ppm, -.0004,.0007,178.7, .0001, -.0009
Sr4215,421.552 { 80},Y_3710,ppm, .0015,.0001,5.594, .0014, .0015
Ti3349,334.904 {101},Y_3600,ppm, -.0004,.0003,83.86, -.0006, -.0002
Tl1908,190.856 {477},In2306,ppm, -.0048,.0013,26.50, -.0039, -.0057
V_2924,292.402 {115},Y_3600,ppm, .0001,.0000,.1237, .0001, .0001
Zn2062,206.200 {463},In2306,ppm, .0024,.0001,3.628, .0025, .0023

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 976.08,22.185,2.2729,991.77,960.40
In2306,230.606 {446},Cts/S, 11963.,11.710,.09788,11955.,11971.
Y_2243,224.306 {450},Cts/S, 19889.,51.582,.25935,19852.,19925.
Y_3600,360.073 { 94},Cts/S, 188930.,1421.9,.75258,187930.,189940.
Y_3710,371.030 { 91},Cts/S, 48396.,833.77,1.7228,48985.,47806.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61650-C-5-B@100
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:31:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0018,265.4, -.0006, .0020
Al3082,308.215 {109},In2306,ppm, .1555,.0070,4.470, .1506, .1605
As1890,189.042 {478},Y_2243,ppm, .0000,.0012,6899., .0008, -.0009
B_2496,249.678 {135},Y_3710,ppm, -.0004,.0015,342.9, -.0015, .0006
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0000,13.43, .0002, .0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,17.04, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .2485,.0024,.9736, .2468, .2502
Ca3181,318.128 {106},In2306,ppm, .2168,.0157,7.223, .2278, .2057
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,162.3, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0004,.0001,34.76, .0004, .0003
Cr2677,267.716 {126},Y_3600,ppm, .0004,.0002,55.07, .0002, .0005
Cu3247,324.754 {104},Y_3600,ppm, -.0004,.0006,133.9, .0000, -.0008
Fe2404,240.488 {140},In2306,ppm, .2454,.0019,.7560, .2467, .2441
K_7664,766.490 { 44},Y_3710,ppm, .2889,.0190,6.592, .3023, .2754
K_7698,769.896 { 44},Y_3710,ppm, .2559,.0567,22.15, .2960, .2159
Li6707,670.784 { 50},Y_3710,ppm, .0003,.0006,218.9, -.0001, .0007
Mg2790,279.079 {121},Y_3710,ppm, .0772,.0192,24.82, .0636, .0907
Mn2576,257.610 {131},Y_3600,ppm, 1.919,.1770,9.223, 1.794, 2.044
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.780,.0123,.6915, 1.771, 1.788
Mo2020,202.030 {467},Y_2243,ppm, -.0003,.0001,16.35, -.0004, -.0003
Na5895,589.592 { 57},Y_3710,ppm, 1.241,.0005,.0423, 1.240, 1.241
Na8183,818.326 { 41},Y_3710,ppm, 1.282,.0997,7.775, 1.353, 1.212
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,144.0, .0000, .0001
P_1782,178.284 {489},In2306,ppm, -.0002,.0006,251.4, .0002, -.0006
Pb2203,220.353 {453},In2306,ppm, .0001,.0005,482.3, .0004, -.0002
S_1820,182.034 {485},Y_2243,ppm, -432.8,9.462,2.186, -426.1, -439.5
Sb2068,206.833 {463},Y_2243,ppm, -.0002,.0008,411.1, .0004, -.0008
Se1960,196.090 {472},Y_2243,ppm, .0009,.0002,24.10, .0007, .0010
Si2516,251.611 {134},Y_3710,ppm, .1875,.0031,1.657, .1853, .1897
Sn1899,189.989 {477},In2306,ppm, -.0001,.0004,240.2, .0001, -.0004
Sr4215,421.552 { 80},Y_3710,ppm, .0013,.0001,5.495, .0012, .0013
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0003,399.0, .0002, -.0003
Tl1908,190.856 {477},In2306,ppm, -.0020,.0009,42.91, -.0026, -.0014
V_2924,292.402 {115},Y_3600,ppm, .0003,.0001,26.03, .0002, .0003
Zn2062,206.200 {463},In2306,ppm, .0029,.0000,.5116, .0029, .0029

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

```
In2306,230.606 {146},Cts/S, 1017.0,3.1706,.31175,1019.3,1014.8
In2306,230.606 {446},Cts/S, 11990.,202.58,1.6896,12133.,11847.
Y_2243,224.306 {450},Cts/S, 19964.,334.98,1.6779,20201.,19728.
Y_3600,360.073 { 94},Cts/S, 182940.,13503.,7.3812,192490.,173390.
Y_3710,371.030 { 91},Cts/S, 50467.,344.96,.68354,50710.,50223.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=mb 600-89602/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:33:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm,k .0008,.0003,31.56, .0010,k .0006
Al3082,308.215 {109},In2306,ppm,k -.0166,.0141,85.12, -.0066,k -.0266
As1890,189.042 {478},Y_2243,ppm,s .0036,.0000,.1137, .0036,s .0036
B_2496,249.678 {135},Y_3710,ppm,s -.0696,.0946,135.9,s -.1365, -.0027
Ba4554,455.403 { 74},Y_3710,ppm,s -.0098,.0137,140.8,s -.0195, .0000
Be3130,313.042 {108},Y_3710,ppm,s .0019,.0026,135.4,s .0037,k .0001
Ca3158,315.887 {107},In2306,ppm, .0368,.0073,19.89, .0316, .0420
Ca3181,318.128 {106},In2306,ppm, -.0264,.0025,9.327, -.0247, -.0282
Cd2288,228.802 {447},Y_2243,ppm,s -.0002,.0000,1.057, -.0002,s -.0002
Co2286,228.616 {447},In2306,ppm,s .0000,.0000,764.8, .0000,s .0000
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0002,107.6, .0003, .0000
Cu3247,324.754 {104},Y_3600,ppm,k .0014,.0030,216.2, -.0007,k .0035
Fe2404,240.488 {140},In2306,ppm, .0026,.0017,67.59, .0013, .0038
K_7664,766.490 { 44},Y_3710,ppm,s -.1911,.2617,137.0,s -.3761, -.0060
K_7698,769.896 { 44},Y_3710,ppm,s -10.52,14.24,135.3,s -20.59, -.4576
Li6707,670.784 { 50},Y_3710,ppm,s -.0047,.0064,135.9,s -.0092, -.0002
Mg2790,279.079 {121},Y_3710,ppm,s .1693,.2202,130.0,s .3250, .0137
Mn2576,257.610 {131},Y_3600,ppm,k -.0001,.0000,31.80,k -.0002, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm,s -.0130,.0186,142.2,s -.0262, .0001
Mo2020,202.030 {467},Y_2243,ppm,s -.0017,.0004,21.72, -.0020,s -.0015
Na5895,589.592 { 57},Y_3710,ppm,s .1046,.1841,176.0,s .2348, -.0256
Na8183,818.326 { 41},Y_3710,ppm,s -.8970,1.456,162.3,s -1.926, .1322
Ni2316,231.604 {445},In2306,ppm,s -.0001,.0001,128.4,k -.0002,s .0000
P_1782,178.284 {489},In2306,ppm,s -.0034,.0001,2.109, -.0034,s -.0033
Pb2203,220.353 {453},In2306,ppm,s .0011,.0004,41.15,k .0008,s .0014
S_1820,182.034 {485},Y_2243,ppm,s -1.186,.0124,1.047, -1.195,s -1.177
Sb2068,206.833 {463},Y_2243,ppm,s -.0001,.0006,564.8, -.0005,s .0003
Se1960,196.090 {472},Y_2243,ppm,s .0010,.0001,12.74, .0010,s .0011
Si2516,251.611 {134},Y_3710,ppm,s -.5586,.7901,141.4,s -1.117,k .0001
Sn1899,189.989 {477},In2306,ppm,s .0005,.0005,112.4, .0001,s .0009
Sr4215,421.552 { 80},Y_3710,ppm,s -.0004,.0004,90.98,s -.0007, -.0001
Ti3349,334.904 {101},Y_3600,ppm,k .0003,.0001,40.29, .0004,k .0002
Tl1908,190.856 {477},In2306,ppm,s .0013,.0003,21.14,k .0011,s .0015
V_2924,292.402 {115},Y_3600,ppm,k .0013,.0002,13.87, .0014,k .0011
Zn2062,206.200 {463},In2306,ppm,s -.0003,.0000,2.579, -.0003,s -.0003

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1652.9,226.53,13.705,1492.7,1813.1
In2306,230.606 {446},Cts/S,^ *****,-----,-----,26433.,^-----
Y_2243,224.306 {450},Cts/S,^ *****,-----,-----,47057.,^-----
```

Y_3600,360.073 { 94},Cts/S, 401120.,112100.,27.947,480380.,321850.
Y_3710,371.030 { 91},Cts/S,^ *****,-----,-----,^-----,84750.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lcs 600-89602/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:36:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .1672,.0044,2.644, .1641, .1704
Al3082,308.215 {109},In2306,ppm, 3.467,.1965,5.666, 3.606, 3.328
As1890,189.042 {478},Y_2243,ppm, .3219,.0051,1.583, .3183, .3255
B_2496,249.678 {135},Y_3710,ppm, .3459,.0243,7.030, .3631, .3288
Ba4554,455.403 { 74},Y_3710,ppm, .3487,.0223,6.390, .3644, .3329
Be3130,313.042 {108},Y_3710,ppm, .1778,.0122,6.853, .1864, .1691
Ca3158,315.887 {107},In2306,ppm, 3.515,.2206,6.275, 3.671, 3.359
Ca3181,318.128 {106},In2306,ppm, 3.486,.2049,5.877, 3.631, 3.341
Cd2288,228.802 {447},Y_2243,ppm, .1596,.0019,1.204, .1583, .1610
Co2286,228.616 {447},In2306,ppm, .3204,.0027,.8465, .3185, .3223
Cr2677,267.716 {126},Y_3600,ppm, .3345,.0084,2.521, .3285, .3404
Cu3247,324.754 {104},Y_3600,ppm, .3314,.0037,1.106, .3289, .3340
Fe2404,240.488 {140},In2306,ppm, 3.536,.2211,6.255, 3.692, 3.379
K_7664,766.490 { 44},Y_3710,ppm, 3.489,.2487,7.127, 3.665, 3.313
K_7698,769.896 { 44},Y_3710,ppm, 3.505,.2792,7.967, 3.702, 3.307
Li6707,670.784 { 50},Y_3710,ppm, .1785,.0102,5.734, .1858, .1713
Mg2790,279.079 {121},Y_3710,ppm, 3.533,.2533,7.170, 3.713, 3.354
Mn2576,257.610 {131},Y_3600,ppm, .3326,.0051,1.535, .3290, .3362
Mn2576-2,257.610 {131}2,Y_3710,ppm, .3552,.0251,7.068, .3729, .3374
Mo2020,202.030 {467},Y_2243,ppm, .3357,.0034,1.021, .3332, .3381
Na5895,589.592 { 57},Y_3710,ppm, 3.517,.2029,5.768, 3.661, 3.374
Na8183,818.326 { 41},Y_3710,ppm, 3.694,.3060,8.284, 3.910, 3.477
Ni2316,231.604 {445},In2306,ppm, .3210,.0034,1.071, .3186, .3234
P_1782,178.284 {489},In2306,ppm, -.0027,.0001,3.615, -.0027, -.0026
Pb2203,220.353 {453},In2306,ppm, .3164,.0026,.8107, .3146, .3182
S_1820,182.034 {485},Y_2243,ppm, -.2838,.0334,11.76, -.3074, -.2602
Sb2068,206.833 {463},Y_2243,ppm, .3183,.0026,.8141, .3165, .3201
Se1960,196.090 {472},Y_2243,ppm, .3228,.0032,1.007, .3205, .3251
Si2516,251.611 {134},Y_3710,ppm, .3479,.0271,7.779, .3671, .3288
Sn1899,189.989 {477},In2306,ppm, .3247,.0027,.8286, .3228, .3266
Sr4215,421.552 { 80},Y_3710,ppm, .1762,.0111,6.303, .1841, .1684
Ti3349,334.904 {101},Y_3600,ppm, .3348,.0060,1.802, .3306, .3391
Tl1908,190.856 {477},In2306,ppm, .3166,.0028,.8885, .3146, .3186
V_2924,292.402 {115},Y_3600,ppm, .3320,.0046,1.390, .3288, .3353
Zn2062,206.200 {463},In2306,ppm, .3195,.0030,.9526, .3174, .3217

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 944.51,56.880,6.0222,904.29,984.73
In2306,230.606 {446},Cts/S, 12099.,125.48,1.0371,12188.,12010.
Y_2243,224.306 {450},Cts/S, 20064.,205.17,1.0225,20209.,19919.
Y_3600,360.073 { 94},Cts/S, 187830.,2200.6,1.1716,189390.,186280.
Y_3710,371.030 { 91},Cts/S, 47353.,3098.6,6.5436,45162.,49545.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89523/1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:38:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .3698,.0157,4.257, .3587, .3809
Al3082,308.215 {109},In2306,ppm, 6.881,.0825,1.198, 6.940, 6.823
As1890,189.042 {478},Y_2243,ppm, .7204,.0031,.4276, .7182, .7226
B_2496,249.678 {135},Y_3710,ppm, .6784,.0192,2.829, .6919, .6648
Ba4554,455.403 { 74},Y_3710,ppm, .6810,.0171,2.518, .6931, .6689
Be3130,313.042 {108},Y_3710,ppm, .3466,.0086,2.489, .3527, .3405
Ca3158,315.887 {107},In2306,ppm, 7.180,.0998,1.390, 7.251, 7.110
Ca3181,318.128 {106},In2306,ppm, 7.062,.0845,1.196, 7.122, 7.002
Cd2288,228.802 {447},Y_2243,ppm, .3578,.0022,.6129, .3594, .3563
Co2286,228.616 {447},In2306,ppm, .7103,.0042,.5938, .7133, .7074
Cr2677,267.716 {126},Y_3600,ppm, .7149,.0311,4.350, .6929, .7369
Cu3247,324.754 {104},Y_3600,ppm, .7222,.0255,3.532, .7042, .7403
Fe2404,240.488 {140},In2306,ppm, 6.851,.0790,1.152, 6.907, 6.796
K_7664,766.490 { 44},Y_3710,ppm, 6.864,.2345,3.416, 7.030, 6.698
K_7698,769.896 { 44},Y_3710,ppm, 6.887,.2186,3.174, 7.041, 6.732
Li6707,670.784 { 50},Y_3710,ppm, .3414,.0099,2.899, .3484, .3344
Mg2790,279.079 {121},Y_3710,ppm, 6.814,.1716,2.519, 6.935, 6.692
Mn2576,257.610 {131},Y_3600,ppm, .7230,.0327,4.517, .6999, .7461
Mn2576-2,257.610 {131}2,Y_3710,ppm, .6939,.0170,2.447, .7059, .6819
Mo2020,202.030 {467},Y_2243,ppm, .7563,.0018,.2318, .7575, .7550
Na5895,589.592 { 57},Y_3710,ppm, 50.77,1.623,3.197, 51.92, 49.62
Na8183,818.326 { 41},Y_3710,ppm, 50.41,1.526,3.027, 51.49, 49.33
Ni2316,231.604 {445},In2306,ppm, .7081,.0058,.8210, .7122, .7040
P_1782,178.284 {489},In2306,ppm, .0502,.0004,.8467, .0505, .0499
Pb2203,220.353 {453},In2306,ppm, .7071,.0035,.4898, .7095, .7046
S_1820,182.034 {485},Y_2243,ppm, .2717,.0394,14.51, .2995, .2438
Sb2068,206.833 {463},Y_2243,ppm, .7183,.0057,.7873, .7223, .7143
Se1960,196.090 {472},Y_2243,ppm, .7286,.0093,1.277, .7352, .7220
Si2516,251.611 {134},Y_3710,ppm, .6762,.0196,2.904, .6901, .6624
Sn1899,189.989 {477},In2306,ppm, .7263,.0020,.2716, .7277, .7249
Sr4215,421.552 { 80},Y_3710,ppm, .3435,.0094,2.722, .3501, .3369
Ti3349,334.904 {101},Y_3600,ppm, .7325,.0374,5.108, .7060, .7590
Tl1908,190.856 {477},In2306,ppm, .7270,.0028,.3858, .7290, .7251
V_2924,292.402 {115},Y_3600,ppm, .7258,.0341,4.693, .7017, .7499
Zn2062,206.200 {463},In2306,ppm, .7054,.0027,.3758, .7073, .7036

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 988.68,23.936,2.4210,971.76,1005.6
In2306,230.606 {446},Cts/S, 11570.,52.722,.45568,11533.,11607.
Y_2243,224.306 {450},Cts/S, 19129.,78.402,.40986,19073.,19184.
Y_3600,360.073 { 94},Cts/S, 180430.,6866.6,3.8058,185280.,175570.
Y_3710,371.030 { 91},Cts/S, 49916.,1636.4,3.2783,48759.,51073.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185

Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:40:40
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2569,.0108,4.198, .2645, .2493
Al3082,308.215 {109},In2306,ppm, 2.375,.0776,3.267, 2.430, 2.320
As1890,189.042 {478},Y_2243,ppm, .4960,.0160,3.221, .4847, .5073
B_2496,249.678 {135},Y_3710,ppm, .4786,.0132,2.751, .4879, .4693
Ba4554,455.403 { 74},Y_3710,ppm, .4778,.0162,3.386, .4892, .4663
Be3130,313.042 {108},Y_3710,ppm, .4854,.0144,2.974, .4956, .4752
Ca3158,315.887 {107},In2306,ppm, 12.19,.2727,2.237, 12.38, 12.00
Ca3181,318.128 {106},In2306,ppm, 11.95,.3511,2.938, 12.20, 11.70
Cd2288,228.802 {447},Y_2243,ppm, .4852,.0172,3.540, .4731, .4974
Co2286,228.616 {447},In2306,ppm, .4860,.0172,3.547, .4738, .4981
Cr2677,267.716 {126},Y_3600,ppm, .5017,.0284,5.659, .5218, .4816
Cu3247,324.754 {104},Y_3600,ppm, .4987,.0276,5.536, .5183, .4792
Fe2404,240.488 {140},In2306,ppm, 2.411,.0516,2.139, 2.447, 2.374
K_7664,766.490 { 44},Y_3710,ppm, 12.15,.4118,3.388, 12.45, 11.86
K_7698,769.896 { 44},Y_3710,ppm, 12.21,.4766,3.905, 12.54, 11.87
Li6707,670.784 { 50},Y_3710,ppm, .4866,.0137,2.817, .4963, .4769
Mg2790,279.079 {121},Y_3710,ppm, 4.835,.1692,3.500, 4.954, 4.715
Mn2576,257.610 {131},Y_3600,ppm, .5071,.0234,4.619, .5237, .4906
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4935,.0115,2.336, .5016, .4853
Mo2020,202.030 {467},Y_2243,ppm, .5158,.0201,3.893, .5016, .5300
Na5895,589.592 { 57},Y_3710,ppm, 12.19,.4457,3.655, 12.51, 11.88
Na8183,818.326 { 41},Y_3710,ppm, 12.16,.3835,3.155, 12.43, 11.88
Ni2316,231.604 {445},In2306,ppm, .4883,.0174,3.557, .4760, .5006
P_1782,178.284 {489},In2306,ppm, .4868,.0167,3.422, .4750, .4986
Pb2203,220.353 {453},In2306,ppm, .4844,.0154,3.188, .4735, .4953
S_1820,182.034 {485},Y_2243,ppm, -205.9,7.184,3.489, -200.8, -211.0
Sb2068,206.833 {463},Y_2243,ppm, .4929,.0183,3.721, .4799, .5059
Se1960,196.090 {472},Y_2243,ppm, .4939,.0151,3.058, .4833, .5046
Si2516,251.611 {134},Y_3710,ppm, .9434,.0312,3.309, .9655, .9213
Sn1899,189.989 {477},In2306,ppm, .5066,.0153,3.012, .4958, .5174
Sr4215,421.552 { 80},Y_3710,ppm, .2434,.0069,2.846, .2483, .2385
Ti3349,334.904 {101},Y_3600,ppm, .5076,.0258,5.085, .5258, .4893
Tl1908,190.856 {477},In2306,ppm, .4942,.0173,3.500, .4819, .5064
V_2924,292.402 {115},Y_3600,ppm, .5077,.0261,5.134, .5261, .4893
Zn2062,206.200 {463},In2306,ppm, .4854,.0171,3.527, .4733, .4975

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 986.90,37.815,3.8317,960.16,1013.6
In2306,230.606 {446},Cts/S, 11950.,338.77,2.8349,12189.,11710.
Y_2243,224.306 {450},Cts/S, 19657.,581.83,2.9600,20068.,19245.
Y_3600,360.073 { 94},Cts/S, 182880.,7125.5,3.8963,177840.,187920.
Y_3710,371.030 { 91},Cts/S, 49479.,2146.2,4.3376,47962.,50997.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=

Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:42:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0051,.0005,10.02, .0047, .0054
Al3082,308.215 {109},In2306,ppm, .0962,.0124,12.85, .0874, .1049
As1890,189.042 {478},Y_2243,ppm, .0103,.0016,15.64, .0092, .0114
B_2496,249.678 {135},Y_3710,ppm, .0116,.0027,23.19, .0097, .0135
Ba4554,455.403 { 74},Y_3710,ppm, .0103,.0004,3.947, .0106, .0100
Be3130,313.042 {108},Y_3710,ppm, .0051,.0001,1.308, .0051, .0050
Ca3158,315.887 {107},In2306,ppm, .1199,.0046,3.844, .1167, .1232
Ca3181,318.128 {106},In2306,ppm, .0935,.0088,9.356, .0874, .0997
Cd2288,228.802 {447},Y_2243,ppm, .0053,.0000,.9323, .0052, .0053
Co2286,228.616 {447},In2306,ppm, .0103,.0002,1.513, .0102, .0104
Cr2677,267.716 {126},Y_3600,ppm, .0109,.0000,.1214, .0109, .0109
Cu3247,324.754 {104},Y_3600,ppm, .0113,.0002,1.974, .0115, .0112
Fe2404,240.488 {140},In2306,ppm, .1036,.0010,1.010, .1028, .1043
K_7664,766.490 { 44},Y_3710,ppm, .6065,.0110,1.817, .5988, .6143
K_7698,769.896 { 44},Y_3710,ppm, .5754,.0665,11.56, .6224, .5284
Li6707,670.784 { 50},Y_3710,ppm, .0092,.0007,7.828, .0097, .0087
Mg2790,279.079 {121},Y_3710,ppm, .1023,.0220,21.52, .1179, .0867
Mn2576,257.610 {131},Y_3600,ppm, .0103,.0000,.4157, .0104, .0103
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0105,.0000,.4734, .0105, .0105
Mo2020,202.030 {467},Y_2243,ppm, .0121,.0010,8.106, .0114, .0128
Na5895,589.592 { 57},Y_3710,ppm, .5855,.0132,2.259, .5949, .5761
Na8183,818.326 { 41},Y_3710,ppm, .6362,.2257,35.48, .7958, .4766
Ni2316,231.604 {445},In2306,ppm, .0104,.0000,.4155, .0104, .0103
P_1782,178.284 {489},In2306,ppm, .0084,.0000,.3413, .0084, .0084
Pb2203,220.353 {453},In2306,ppm, .0094,.0001,1.310, .0095, .0093
S_1820,182.034 {485},Y_2243,ppm, .2248,.1390,61.82, .1265, .3231
Sb2068,206.833 {463},Y_2243,ppm, .0124,.0003,2.284, .0126, .0122
Se1960,196.090 {472},Y_2243,ppm, .0110,.0006,4.991, .0106, .0114
Si2516,251.611 {134},Y_3710,ppm, .0109,.0018,16.77, .0096, .0122
Sn1899,189.989 {477},In2306,ppm, .0113,.0005,4.738, .0110, .0117
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0000,.2799, .0051, .0051
Ti3349,334.904 {101},Y_3600,ppm, .0103,.0001,1.250, .0102, .0104
Tl1908,190.856 {477},In2306,ppm, .0113,.0009,7.610, .0120, .0107
V_2924,292.402 {115},Y_3600,ppm, .0102,.0001,.9754, .0102, .0101
Zn2062,206.200 {463},In2306,ppm, .0109,.0002,1.426, .0107, .0110

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 987.13,14.136,1.4320,977.14,997.13
In2306,230.606 {446},Cts/S, 11823.,17.572,.14863,11835.,11810.
Y_2243,224.306 {450},Cts/S, 19593.,27.462,.14016,19573.,19612.
Y_3600,360.073 { 94},Cts/S, 187560.,231.98,.12368,187730.,187400.
Y_3710,371.030 { 91},Cts/S, 49324.,384.58,.77970,49052.,49596.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:45:15

Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0009,.0004,50.46, -.0012, -.0005
Al3082,308.215 {109},In2306,ppm, -.0094,.0056,59.07, -.0055, -.0133
As1890,189.042 {478},Y_2243,ppm, -.0005,.0002,43.89, -.0004, -.0007
B_2496,249.678 {135},Y_3710,ppm, .0012,.0020,168.0, .0026, -.0002
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0002,307.3, -.0003, .0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,306.7, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0041,.0032,76.14, .0064, .0019
Ca3181,318.128 {106},In2306,ppm, -.0001,.0025,1707., -.0019, .0016
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,2770., -.0001, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0001,575.1, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0004,128.8, .0006, .0000
Cu3247,324.754 {104},Y_3600,ppm, .0005,.0002,38.06, .0004, .0006
Fe2404,240.488 {140},In2306,ppm, .0013,.0025,198.2, .0031, -.0005
K_7664,766.490 { 44},Y_3710,ppm, -.0203,.0237,116.8, -.0370, -.0035
K_7698,769.896 { 44},Y_3710,ppm, -.0007,.0114,1632., .0074, -.0088
Li6707,670.784 { 50},Y_3710,ppm, .0002,.0002,110.9, .0004, .0000
Mg2790,279.079 {121},Y_3710,ppm, .0101,.0112,110.9, .0022, .0180
Mn2576,257.610 {131},Y_3600,ppm, -.0002,.0000,24.29, -.0001, -.0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0006,.0007,114.2, -.0001, -.0011
Mo2020,202.030 {467},Y_2243,ppm, .0002,.0002,78.98, .0003, .0001
Na5895,589.592 { 57},Y_3710,ppm, -.0138,.0031,22.16, -.0116, -.0159
Na8183,818.326 { 41},Y_3710,ppm, .0657,.1316,200.2, .1588, -.0273
Ni2316,231.604 {445},In2306,ppm, .0000,.0000,45.40, .0000, .0000
P_1782,178.284 {489},In2306,ppm, -.0002,.0003,117.7, .0000, -.0004
Pb2203,220.353 {453},In2306,ppm, -.0003,.0004,148.1, .0000, -.0005
S_1820,182.034 {485},Y_2243,ppm, -.0263,.2310,879.4, -.1896, .1371
Sb2068,206.833 {463},Y_2243,ppm, -.0014,.0012,81.22, -.0022, -.0006
Se1960,196.090 {472},Y_2243,ppm, -.0009,.0005,48.83, -.0006, -.0013
Si2516,251.611 {134},Y_3710,ppm, .0014,.0015,108.1, .0003, .0024
Sn1899,189.989 {477},In2306,ppm, .0002,.0020,950.3, .0016, -.0012
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,6.313, .0000, .0000
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0002,273.9, -.0002, .0001
Tl1908,190.856 {477},In2306,ppm, .0002,.0001,61.80, .0003, .0001
V_2924,292.402 {115},Y_3600,ppm, .0000,.0001,216.3, .0000, .0001
Zn2062,206.200 {463},In2306,ppm, -.0002,.0000,23.90, -.0002, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 964.06,26.291,2.7271,982.65,945.47
In2306,230.606 {446},Cts/S, 11900.,144.00,1.2101,12001.,11798.
Y_2243,224.306 {450},Cts/S, 19623.,260.32,1.3266,19807.,19439.
Y_3600,360.073 { 94},Cts/S, 188950.,4668.2,2.4706,185650.,192250.
Y_3710,371.030 { 91},Cts/S, 47754.,1274.9,2.6697,48656.,46853.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61570-a-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:47:42
Sample Type=Unk
Mode=CONC
CorrFactor=1.000

Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0002,211.5, -.0001, .0003
Al3082,308.215 {109},In2306,ppm, .0406,.0093,22.83, .0472, .0341
As1890,189.042 {478},Y_2243,ppm, .0009,.0003,36.59, .0011, .0006
B_2496,249.678 {135},Y_3710,ppm, .0688,.0019,2.760, .0702, .0675
Ba4554,455.403 { 74},Y_3710,ppm, .0184,.0003,1.552, .0186, .0182
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,50.55, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 3.458,.0463,1.338, 3.490, 3.425
Ca3181,318.128 {106},In2306,ppm, 3.351,.0718,2.143, 3.401, 3.300
Cd2288,228.802 {447},Y_2243,ppm, .0007,.0001,7.881, .0008, .0007
Co2286,228.616 {447},In2306,ppm, .0037,.0002,6.705, .0039, .0035
Cr2677,267.716 {126},Y_3600,ppm, .0018,.0004,21.47, .0021, .0016
Cu3247,324.754 {104},Y_3600,ppm, .4437,.0313,7.048, .4658, .4216
Fe2404,240.488 {140},In2306,ppm, .1784,.0008,.4595, .1790, .1778
K_7664,766.490 { 44},Y_3710,ppm, .9100,.0296,3.249, .9309, .8891
K_7698,769.896 { 44},Y_3710,ppm, .9625,.0022,.2305, .9610, .9641
Li6707,670.784 { 50},Y_3710,ppm, .0021,.0001,5.558, .0020, .0021
Mg2790,279.079 {121},Y_3710,ppm, .3687,.0089,2.408, .3750, .3624
Mn2576,257.610 {131},Y_3600,ppm, .0303,.0022,7.351, .0319, .0287
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0300,.0004,1.182, .0303, .0298
Mo2020,202.030 {467},Y_2243,ppm, .0319,.0013,4.099, .0328, .0310
Na5895,589.592 { 57},Y_3710,ppm, 107.2,2.045,1.907, 108.6, 105.8
Na8183,818.326 { 41},Y_3710,ppm, 106.8,1.581,1.481, 107.9, 105.6
Ni2316,231.604 {445},In2306,ppm, .0087,.0004,4.509, .0090, .0084
P_1782,178.284 {489},In2306,ppm, .1609,.0059,3.657, .1650, .1567
Pb2203,220.353 {453},In2306,ppm, .5740,.0181,3.148, .5868, .5612
S_1820,182.034 {485},Y_2243,ppm, -561.3,25.46,4.536, -579.3, -543.3
Sb2068,206.833 {463},Y_2243,ppm, .0013,.0017,131.4, .0025, .0001
Se1960,196.090 {472},Y_2243,ppm, .0014,.0005,40.42, .0010, .0017
Si2516,251.611 {134},Y_3710,ppm, .5098,.0007,.1356, .5093, .5103
Sn1899,189.989 {477},In2306,ppm, .0077,.0002,2.637, .0079, .0076
Sr4215,421.552 { 80},Y_3710,ppm, .0153,.0003,2.123, .0155, .0150
Ti3349,334.904 {101},Y_3600,ppm, .0065,.0007,10.21, .0070, .0061
Tl1908,190.856 {477},In2306,ppm, -.0002,.0006,347.6, .0003, -.0006
V_2924,292.402 {115},Y_3600,ppm, .0003,.0001,42.15, .0002, .0004
Zn2062,206.200 {463},In2306,ppm, .2261,.0085,3.776, .2321, .2200

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 951.73,6.3379,.66594,956.21,947.25
In2306,230.606 {446},Cts/S, 11607.,312.08,2.6887,11387.,11828.
Y_2243,224.306 {450},Cts/S, 19025.,547.06,2.8755,18638.,19412.
Y_3600,360.073 { 94},Cts/S, 176040.,9872.3,5.6080,169060.,183020.
Y_3710,371.030 { 91},Cts/S, 48003.,562.41,1.1716,48401.,47605.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61570-a-2-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:50:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

```
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5325,.0178,3.340, .5451, .5200
Al3082,308.215 {109},In2306,ppm, 9.935,.5769,5.806, 9.528, 10.34
As1890,189.042 {478},Y_2243,ppm, 1.041,.0292,2.803, 1.021, 1.062
B_2496,249.678 {135},Y_3710,ppm, 1.097,.0533,4.856, 1.059, 1.135
Ba4554,455.403 { 74},Y_3710,ppm, 1.009,.0558,5.527, .9700, 1.049
Be3130,313.042 {108},Y_3710,ppm, .4986,.0270,5.422, .4795, .5177
Ca3158,315.887 {107},In2306,ppm, 15.24,.8441,5.538, 14.65, 15.84
Ca3181,318.128 {106},In2306,ppm, 14.89,.8074,5.424, 14.32, 15.46
Cd2288,228.802 {447},Y_2243,ppm, .5145,.0121,2.346, .5059, .5230
Co2286,228.616 {447},In2306,ppm, 1.011,.0209,2.068, .9964, 1.026
Cr2677,267.716 {126},Y_3600,ppm, 1.009,.0326,3.227, 1.032, .9864
Cu3247,324.754 {104},Y_3600,ppm, 1.809,.0534,2.952, 1.847, 1.771
Fe2404,240.488 {140},In2306,ppm, 10.16,.5498,5.413, 9.768, 10.55
K_7664,766.490 { 44},Y_3710,ppm, 11.43,.4916,4.302, 11.08, 11.77
K_7698,769.896 { 44},Y_3710,ppm, 11.59,.4862,4.195, 11.25, 11.93
Li6707,670.784 { 50},Y_3710,ppm, .4978,.0280,5.623, .4780, .5176
Mg2790,279.079 {121},Y_3710,ppm, 10.27,.4770,4.642, 9.937, 10.61
Mn2576,257.610 {131},Y_3600,ppm, 1.077,.0296,2.744, 1.098, 1.057
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.051,.0526,5.005, 1.014, 1.088
Mo2020,202.030 {467},Y_2243,ppm, 1.143,.0261,2.282, 1.125, 1.162
Na5895,589.592 { 57},Y_3710,ppm, 89.62,4.373,4.879, 86.52, 92.71
Na8183,818.326 { 41},Y_3710,ppm, 89.07,4.413,4.954, 85.95, 92.19
Ni2316,231.604 {445},In2306,ppm, 1.018,.0204,2.003, 1.003, 1.032
P_1782,178.284 {489},In2306,ppm, .1494,.0019,1.279, .1481, .1508
Pb2203,220.353 {453},In2306,ppm, 2.033,.0436,2.143, 2.002, 2.064
S_1820,182.034 {485},Y_2243,ppm, -1066.,23.18,2.174, -1050., -1083.
Sb2068,206.833 {463},Y_2243,ppm, 1.034,.0273,2.643, 1.015, 1.054
Se1960,196.090 {472},Y_2243,ppm, 1.058,.0262,2.473, 1.039, 1.076
Si2516,251.611 {134},Y_3710,ppm, 1.818,.0896,4.929, 1.754, 1.881
Sn1899,189.989 {477},In2306,ppm, 1.048,.0243,2.313, 1.031, 1.066
Sr4215,421.552 { 80},Y_3710,ppm, .5229,.0286,5.467, .5027, .5431
Ti3349,334.904 {101},Y_3600,ppm, 1.055,.0309,2.931, 1.076, 1.033
Tl1908,190.856 {477},In2306,ppm, 1.033,.0250,2.421, 1.015, 1.051
V_2924,292.402 {115},Y_3600,ppm, 1.028,.0307,2.990, 1.050, 1.006
Zn2062,206.200 {463},In2306,ppm, 1.374,.0279,2.032, 1.354, 1.393

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 965.82,15.163,1.5699,976.54,955.10
In2306,230.606 {446},Cts/S, 11528.,216.77,1.8804,11681.,11374.
Y_2243,224.306 {450},Cts/S, 18934.,397.10,2.0973,19215.,18653.
Y_3600,360.073 { 94},Cts/S, 179960.,4272.2,2.3740,176940.,182980.
Y_3710,371.030 { 91},Cts/S, 49212.,620.67,1.2612,49651.,48773.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61805-a-3-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:52:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0021,.0010,46.14, .0028, .0014
Al3082,308.215 {109},In2306,ppm, .1313,.0171,13.02, .1192, .1433
```

As1890,189.042 {478},Y_2243,ppm, .0042,.0016,37.02, .0031, .0053
B_2496,249.678 {135},Y_3710,ppm, .0688,.0075,10.87, .0635, .0741
Ba4554,455.403 { 74},Y_3710,ppm, .0443,.0023,5.148, .0427, .0459
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,22.84, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 5.663,.2956,5.220, 5.454, 5.872
Ca3181,318.128 {106},In2306,ppm, 5.542,.3104,5.601, 5.322, 5.761
Cd2288,228.802 {447},Y_2243,ppm, .0228,.0001,.3695, .0229, .0227
Co2286,228.616 {447},In2306,ppm, .0016,.0014,88.91, .0006, .0026
Cr2677,267.716 {126},Y_3600,ppm, .0068,.0001,1.760, .0067, .0069
Cu3247,324.754 {104},Y_3600,ppm, .4679,.0143,3.056, .4578, .4780
Fe2404,240.488 {140},In2306,ppm, .5801,.0333,5.735, .5565, .6036
K_7664,766.490 { 44},Y_3710,ppm, .9825,.0429,4.363, .9522, 1.013
K_7698,769.896 { 44},Y_3710,ppm, .9833,.0731,7.435, .9316, 1.035
Li6707,670.784 { 50},Y_3710,ppm, .0183,.0004,2.019, .0186, .0180
Mg2790,279.079 {121},Y_3710,ppm, .7517,.0587,7.808, .7102, .7932
Mn2576,257.610 {131},Y_3600,ppm, .0133,.0004,2.705, .0130, .0135
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0144,.0008,5.381, .0139, .0150
Mo2020,202.030 {467},Y_2243,ppm, .0714,.0002,.3451, .0712, .0715
Na5895,589.592 { 57},Y_3710,ppm, 138.1,6.677,4.835, 133.4, 142.8
Na8183,818.326 { 41},Y_3710,ppm, 137.6,6.749,4.905, 132.8, 142.4
Ni2316,231.604 {445},In2306,ppm, .0077,.0011,14.95, .0069, .0085
P_1782,178.284 {489},In2306,ppm, 16.70,.3916,2.345, 16.97, 16.42
Pb2203,220.353 {453},In2306,ppm, .0296,.0009,2.937, .0290, .0302
S_1820,182.034 {485},Y_2243,ppm, -1706.,39.82,2.334, -1734., -1678.
Sb2068,206.833 {463},Y_2243,ppm, .0081,.0012,15.14, .0072, .0090
Se1960,196.090 {472},Y_2243,ppm, .0036,.0003,8.107, .0038, .0034
Si2516,251.611 {134},Y_3710,ppm, 31.37,1.775,5.659, 30.12, 32.63
Sn1899,189.989 {477},In2306,ppm, .0071,.0017,23.44, .0059, .0083
Sr4215,421.552 { 80},Y_3710,ppm, .0170,.0009,5.094, .0164, .0176
Ti3349,334.904 {101},Y_3600,ppm, .0043,.0002,5.077, .0041, .0044
Tl1908,190.856 {477},In2306,ppm, .0017,.0057,328.2, -.0023, .0058
V_2924,292.402 {115},Y_3600,ppm, -.0002,.0000,.1450, -.0002, -.0002
Zn2062,206.200 {463},In2306,ppm, .5125,.0105,2.055, .5199, .5050

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 943.44,28.190,2.9880,963.38,923.51
In2306,230.606 {446},Cts/S, 11774.,221.14,1.8783,11617.,11930.
Y_2243,224.306 {450},Cts/S, 19439.,395.40,2.0341,19159.,19718.
Y_3600,360.073 { 94},Cts/S, 179360.,3878.4,2.1623,182100.,176620.
Y_3710,371.030 { 91},Cts/S, 47522.,1818.7,3.8271,48808.,46236.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61805-a-4-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:54:36
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0008,.0002,29.36, .0010, .0006
Al3082,308.215 {109},In2306,ppm, .0873,.0102,11.72, .0945, .0800
As1890,189.042 {478},Y_2243,ppm, .0022,.0004,20.13, .0025, .0019
B_2496,249.678 {135},Y_3710,ppm, .0626,.0040,6.437, .0654, .0597
Ba4554,455.403 { 74},Y_3710,ppm, .0273,.0004,1.610, .0276, .0269

```
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,269.9, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 7.022,.1616,2.301, 7.136, 6.908
Ca3181,318.128 {106},In2306,ppm, 6.991,.1468,2.100, 7.095, 6.887
Cd2288,228.802 {447},Y_2243,ppm, .0199,.0003,1.263, .0197, .0200
Co2286,228.616 {447},In2306,ppm, .0004,.0000,.4473, .0004, .0004
Cr2677,267.716 {126},Y_3600,ppm, .0044,.0001,2.395, .0044, .0043
Cu3247,324.754 {104},Y_3600,ppm, .6018,.0355,5.907, .6269, .5766
Fe2404,240.488 {140},In2306,ppm, .2593,.0003,.1110, .2595, .2591
K_7664,766.490 { 44},Y_3710,ppm, .6020,.0403,6.696, .6305, .5735
K_7698,769.896 { 44},Y_3710,ppm, .6816,.0304,4.464, .7031, .6601
Li6707,670.784 { 50},Y_3710,ppm, .0186,.0002,.9086, .0188, .0185
Mg2790,279.079 {121},Y_3710,ppm, .2945,.0093,3.163, .3011, .2879
Mn2576,257.610 {131},Y_3600,ppm, .0094,.0005,5.789, .0097, .0090
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0089,.0002,2.761, .0091, .0087
Mo2020,202.030 {467},Y_2243,ppm, .0433,.0003,.7743, .0431, .0435
Na5895,589.592 { 57},Y_3710,ppm, 135.5,2.472,1.824, 133.8, 137.3
Na8183,818.326 { 41},Y_3710,ppm, 140.9,1.890,1.342, 142.2, 139.5
Ni2316,231.604 {445},In2306,ppm, .0087,.0002,2.472, .0085, .0088
P_1782,178.284 {489},In2306,ppm, 10.62,.1189,1.120, 10.54, 10.71
Pb2203,220.353 {453},In2306,ppm, .0404,.0003,.8338, .0402, .0406
S_1820,182.034 {485},Y_2243,ppm, -1033.,13.26,1.284, -1024., -1042.
Sb2068,206.833 {463},Y_2243,ppm, .0032,.0009,29.25, .0025, .0038
Se1960,196.090 {472},Y_2243,ppm, .0017,.0002,9.070, .0016, .0018
Si2516,251.611 {134},Y_3710,ppm, 17.91,.2785,1.555, 18.11, 17.71
Sn1899,189.989 {477},In2306,ppm, .0036,.0004,11.63, .0039, .0033
Sr4215,421.552 { 80},Y_3710,ppm, .0265,.0005,1.836, .0269, .0262
Ti3349,334.904 {101},Y_3600,ppm, .0015,.0002,15.69, .0014, .0017
Tl1908,190.856 {477},In2306,ppm, .0005,.0014,276.5, -.0005, .0015
V_2924,292.402 {115},Y_3600,ppm, .0000,.0002,476.2, .0001, -.0002
Zn2062,206.200 {463},In2306,ppm, .4987,.0065,1.301, .4941, .5033

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 974.58,15.211,1.5608,963.83,985.34
In2306,230.606 {446},Cts/S, 11563.,107.26,.92758,11639.,11487.
Y_2243,224.306 {450},Cts/S, 19102.,211.68,1.1082,19251.,18952.
Y_3600,360.073 { 94},Cts/S, 172440.,7934.8,4.6016,166830.,178050.
Y_3710,371.030 { 91},Cts/S, 48797.,366.94,.75198,48537.,49056.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61536-b-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:57:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0003,77.25, .0006, .0002
Al3082,308.215 {109},In2306,ppm, -.0050,.0030,58.64, -.0029, -.0071
As1890,189.042 {478},Y_2243,ppm, .0020,.0006,28.60, .0024, .0016
B_2496,249.678 {135},Y_3710,ppm, .0077,.0015,20.11, .0066, .0088
Ba4554,455.403 { 74},Y_3710,ppm, .0321,.0005,1.585, .0325, .0318
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,43.00, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 63.21,1.481,2.343, 64.25, 62.16
Ca3181,318.128 {106},In2306,ppm, 62.74,1.381,2.201, 63.72, 61.77
```

```
Cd2288,228.802 {447},Y_2243,ppm, .0010,.0001,10.51, .0009, .0011
Co2286,228.616 {447},In2306,ppm, .0005,.0000,4.804, .0005, .0004
Cr2677,267.716 {126},Y_3600,ppm, .0012,.0001,4.814, .0011, .0012
Cu3247,324.754 {104},Y_3600,ppm, .0718,.0023,3.191, .0734, .0702
Fe2404,240.488 {140},In2306,ppm, .0083,.0021,24.94, .0068, .0097
K_7664,766.490 { 44},Y_3710,ppm, .2233,.0109,4.883, .2156, .2310
K_7698,769.896 { 44},Y_3710,ppm, .1922,.0282,14.65, .2121, .1723
Li6707,670.784 { 50},Y_3710,ppm, .0020,.0001,4.376, .0020, .0021
Mg2790,279.079 {121},Y_3710,ppm, .4581,.0243,5.297, .4753, .4410
Mn2576,257.610 {131},Y_3600,ppm, .1140,.0048,4.184, .1174, .1107
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1162,.0025,2.113, .1180, .1145
Mo2020,202.030 {467},Y_2243,ppm, .0000,.0001,362.7, .0000, .0001
Na5895,589.592 { 57},Y_3710,ppm, 141.4,2.435,1.722, 143.1, 139.7
Na8183,818.326 { 41},Y_3710,ppm, 143.7,1.944,1.353, 145.1, 142.3
Ni2316,231.604 {445},In2306,ppm, .0020,.0002,10.35, .0022, .0019
P_1782,178.284 {489},In2306,ppm, .1044,.0147,14.04, .0940, .1147
Pb2203,220.353 {453},In2306,ppm, .0001,.0001,140.6, .0000, .0001
S_1820,182.034 {485},Y_2243,ppm, -37.70,1.360,3.606, -36.74, -38.66
Sb2068,206.833 {463},Y_2243,ppm, -.0002,.0002,80.78, -.0001, -.0003
Se1960,196.090 {472},Y_2243,ppm, .0009,.0014,154.2, .0019, -.0001
Si2516,251.611 {134},Y_3710,ppm, .2151,.0065,3.004, .2197, .2106
Sn1899,189.989 {477},In2306,ppm, .0000,.0011,2714., -.0007, .0008
Sr4215,421.552 { 80},Y_3710,ppm, .0815,.0012,1.516, .0824, .0807
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0001,14.15, .0004, .0005
Tl1908,190.856 {477},In2306,ppm, .0002,.0013,559.1, .0012, -.0007
V_2924,292.402 {115},Y_3600,ppm, -.0007,.0000,.2191, -.0007, -.0007
Zn2062,206.200 {463},In2306,ppm, .0829,.0005,.5690, .0832, .0825

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 955.54,24.098,2.5219,938.50,972.58
In2306,230.606 {446},Cts/S, 11449.,56.490,.49340,11409.,11489.
Y_2243,224.306 {450},Cts/S, 19045.,55.433,.29107,19005.,19084.
Y_3600,360.073 { 94},Cts/S, 179950.,5735.0,3.1870,175900.,184010.
Y_3710,371.030 { 91},Cts/S, 48190.,723.39,1.5011,47678.,48701.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61779-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 9:59:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0003,57.72, -.0008, -.0003
Al3082,308.215 {109},In2306,ppm, 18.74,.0261,.1393, 18.73, 18.76
As1890,189.042 {478},Y_2243,ppm, .0021,.0004,16.63, .0019, .0024
B_2496,249.678 {135},Y_3710,ppm, .0096,.0013,13.56, .0105, .0087
Ba4554,455.403 { 74},Y_3710,ppm, .0112,.0001,.9366, .0111, .0113
Be3130,313.042 {108},Y_3710,ppm, .0003,.0000,10.74, .0003, .0004
Ca3158,315.887 {107},In2306,ppm, 18.76,.0543,.2895, 18.80, 18.72
Ca3181,318.128 {106},In2306,ppm, 18.66,.0431,.2309, 18.69, 18.63
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,993.3, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0006,.0000,5.994, .0005, .0006
Cr2677,267.716 {126},Y_3600,ppm, .0060,.0002,3.941, .0062, .0059
```

```
Cu3247,324.754 {104},Y_3600,ppm, .0051,.0003,6.590, .0053, .0048
Fe2404,240.488 {140},In2306,ppm, .0601,.0032,5.387, .0624, .0578
K_7664,766.490 { 44},Y_3710,ppm, 1.712,.0189,1.102, 1.699, 1.726
K_7698,769.896 { 44},Y_3710,ppm, 1.711,.0416,2.429, 1.681, 1.740
Li6707,670.784 { 50},Y_3710,ppm, .0972,.0021,2.130, .0958, .0987
Mg2790,279.079 {121},Y_3710,ppm, .1553,.0068,4.362, .1506, .1601
Mn2576,257.610 {131},Y_3600,ppm, .0088,.0002,1.756, .0089, .0087
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0093,.0002,1.833, .0092, .0094
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0008,154.6, -.0011, .0000
Na5895,589.592 { 57},Y_3710,ppm, 138.9,4.659,3.353, 135.6, 142.2
Na8183,818.326 { 41},Y_3710,ppm, 143.5,.7163,.4992, 143.0, 144.0
Ni2316,231.604 {445},In2306,ppm, .0087,.0004,4.492, .0089, .0084
P_1782,178.284 {489},In2306,ppm, .1689,.0023,1.375, .1705, .1672
Pb2203,220.353 {453},In2306,ppm, .0136,.0000,.1057, .0136, .0136
S_1820,182.034 {485},Y_2243,ppm, -7264.,112.5,1.549, -7344., -7185.
Sb2068,206.833 {463},Y_2243,ppm, -.0007,.0000,7.147, -.0007, -.0006
Se1960,196.090 {472},Y_2243,ppm, .0009,.0004,44.01, .0011, .0006
Si2516,251.611 {134},Y_3710,ppm, .2999,.0055,1.845, .2959, .3038
Sn1899,189.989 {477},In2306,ppm, .0005,.0007,150.4, .0000, .0010
Sr4215,421.552 { 80},Y_3710,ppm, .1074,.0007,.6100, .1070, .1079
Ti3349,334.904 {101},Y_3600,ppm, .1679,.0022,1.326, .1695, .1663
Tl1908,190.856 {477},In2306,ppm, -.0006,.0013,216.4, .0003, -.0015
V_2924,292.402 {115},Y_3600,ppm, .0080,.0001,1.600, .0081, .0079
Zn2062,206.200 {463},In2306,ppm, .0240,.0006,2.479, .0244, .0236

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 971.01,12.256,1.2622,962.34,979.68
In2306,230.606 {446},Cts/S, 11611.,180.92,1.5582,11483.,11739.
Y_2243,224.306 {450},Cts/S, 19452.,262.93,1.3517,19266.,19638.
Y_3600,360.073 { 94},Cts/S, 177670.,2142.1,1.2057,176150.,179180.
Y_3710,371.030 { 91},Cts/S, 49417.,294.01,.59495,49209.,49625.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61779-a-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:01:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .4981,.0059,1.188, .4939, .5022
Al3082,308.215 {109},In2306,ppm, 28.93,.6923,2.393, 28.44, 29.42
As1890,189.042 {478},Y_2243,ppm, 1.022,.0059,.5784, 1.026, 1.018
B_2496,249.678 {135},Y_3710,ppm, .9945,.0152,1.525, .9837, 1.005
Ba4554,455.403 { 74},Y_3710,ppm, 1.006,.0175,1.738, .9936, 1.018
Be3130,313.042 {108},Y_3710,ppm, .5051,.0097,1.924, .4982, .5119
Ca3158,315.887 {107},In2306,ppm, 28.71,.5910,2.059, 28.29, 29.13
Ca3181,318.128 {106},In2306,ppm, 28.57,.5868,2.054, 28.16, 28.99
Cd2288,228.802 {447},Y_2243,ppm, .4998,.0023,.4615, .5015, .4982
Co2286,228.616 {447},In2306,ppm, .9984,.0012,.1165, .9976, .9992
Cr2677,267.716 {126},Y_3600,ppm, .9576,.0047,.4861, .9543, .9609
Cu3247,324.754 {104},Y_3600,ppm, .9814,.0127,1.290, .9724, .9903
Fe2404,240.488 {140},In2306,ppm, 10.24,.1973,1.927, 10.10, 10.38
K_7664,766.490 { 44},Y_3710,ppm, 11.63,.1413,1.214, 11.53, 11.73
```

```
K_7698,769.896 { 44},Y_3710,ppm, 11.78,.1475,1.252, 11.67, 11.88
Li6707,670.784 { 50},Y_3710,ppm, .5957,.0089,1.487, .5894, .6019
Mg2790,279.079 {121},Y_3710,ppm, 9.977,.1890,1.894, 9.844, 10.11
Mn2576,257.610 {131},Y_3600,ppm, .9708,.0086,.8845, .9647, .9769
Mn2576-2,257.610 {131}2,Y_3710,ppm, .9992,.0226,2.264, .9832, 1.015
Mo2020,202.030 {467},Y_2243,ppm, 1.035,.0031,.2947, 1.037, 1.033
Na5895,589.592 { 57},Y_3710,ppm, 147.6,7.351,4.982, 142.4, 152.7
Na8183,818.326 { 41},Y_3710,ppm, 152.2,2.111,1.387, 150.7, 153.7
Ni2316,231.604 {445},In2306,ppm, .9962,.0003,.0290, .9964, .9960
P_1782,178.284 {489},In2306,ppm, .1679,.0003,.1842, .1681, .1676
Pb2203,220.353 {453},In2306,ppm, 1.008,.0001,.0050, 1.008, 1.008
S_1820,182.034 {485},Y_2243,ppm, -7261.,24.89,.3427, -7279., -7244.
Sb2068,206.833 {463},Y_2243,ppm, 1.001,.0082,.8143, 1.007, .9952
Se1960,196.090 {472},Y_2243,ppm, 1.036,.0035,.3351, 1.038, 1.033
Si2516,251.611 {134},Y_3710,ppm, 1.274,.0306,2.401, 1.253, 1.296
Sn1899,189.989 {477},In2306,ppm, 1.012,.0017,.1671, 1.013, 1.011
Sr4215,421.552 { 80},Y_3710,ppm, .6089,.0099,1.629, .6018, .6159
Ti3349,334.904 {101},Y_3600,ppm, 1.137,.0117,1.025, 1.129, 1.145
Tl1908,190.856 {477},In2306,ppm, 1.014,.0071,.6976, 1.019, 1.009
V_2924,292.402 {115},Y_3600,ppm, .9832,.0085,.8629, .9772, .9892
Zn2062,206.200 {463},In2306,ppm, 1.004,.0034,.3336, 1.002, 1.007

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 964.52,13.238,1.3725,973.88,955.16
In2306,230.606 {446},Cts/S, 11482.,27.580,.24021,11462.,11501.
Y_2243,224.306 {450},Cts/S, 19330.,100.56,.52025,19259.,19401.
Y_3600,360.073 { 94},Cts/S, 185110.,1435.8,.77563,186130.,184100.
Y_3710,371.030 { 91},Cts/S, 49908.,666.25,1.3350,50379.,49437.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61779-a-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:04:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5132,.0004,.0778, .5129, .5135
Al3082,308.215 {109},In2306,ppm, 29.15,2.756,9.457, 27.20, 31.10
As1890,189.042 {478},Y_2243,ppm, 1.025,.0014,.1350, 1.024, 1.026
B_2496,249.678 {135},Y_3710,ppm, .9973,.0857,8.590, .9367, 1.058
Ba4554,455.403 { 74},Y_3710,ppm, 1.007,.0860,8.538, .9460, 1.068
Be3130,313.042 {108},Y_3710,ppm, .5078,.0454,8.946, .4757, .5399
Ca3158,315.887 {107},In2306,ppm, 29.06,2.713,9.337, 27.14, 30.98
Ca3181,318.128 {106},In2306,ppm, 28.85,2.679,9.285, 26.96, 30.75
Cd2288,228.802 {447},Y_2243,ppm, .5016,.0025,.4943, .4999, .5034
Co2286,228.616 {447},In2306,ppm, 1.004,.0035,.3487, 1.002, 1.006
Cr2677,267.716 {126},Y_3600,ppm, .9735,.0060,.6185, .9692, .9778
Cu3247,324.754 {104},Y_3600,ppm, .9938,.0053,.5308, .9901, .9976
Fe2404,240.488 {140},In2306,ppm, 10.26,.9831,9.580, 9.567, 10.96
K_7664,766.490 { 44},Y_3710,ppm, 11.73,.9254,7.892, 11.07, 12.38
K_7698,769.896 { 44},Y_3710,ppm, 11.80,1.085,9.192, 11.04, 12.57
Li6707,670.784 { 50},Y_3710,ppm, .5958,.0505,8.471, .5601, .6315
Mg2790,279.079 {121},Y_3710,ppm, 10.03,.8666,8.636, 9.422, 10.65
```

```
Mn2576,257.610 {131},Y_3600,ppm, .9945,.0066,.6607, .9898, .9991
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.008,.0923,9.156, .9432, 1.074
Mo2020,202.030 {467},Y_2243,ppm, 1.045,.0022,.2089, 1.044, 1.047
Na5895,589.592 { 57},Y_3710,ppm, 151.7,20.83,13.73, 137.0, 166.4
Na8183,818.326 { 41},Y_3710,ppm, 153.9,12.50,8.124, 145.1, 162.8
Ni2316,231.604 {445},In2306,ppm, 1.003,.0030,.2971, 1.001, 1.005
P_1782,178.284 {489},In2306,ppm, .1694,.0015,.8912, .1683, .1705
Pb2203,220.353 {453},In2306,ppm, 1.012,.0027,.2640, 1.010, 1.014
S_1820,182.034 {485},Y_2243,ppm, -7335.,37.33,.5089, -7309., -7362.
Sb2068,206.833 {463},Y_2243,ppm, 1.007,.0056,.5517, 1.003, 1.011
Se1960,196.090 {472},Y_2243,ppm, 1.038,.0078,.7483, 1.033, 1.044
Si2516,251.611 {134},Y_3710,ppm, 1.282,.0924,7.208, 1.217, 1.348
Sn1899,189.989 {477},In2306,ppm, 1.019,.0062,.6109, 1.015, 1.024
Sr4215,421.552 { 80},Y_3710,ppm, .6129,.0550,8.974, .5740, .6518
Ti3349,334.904 {101},Y_3600,ppm, 1.157,.0077,.6655, 1.151, 1.162
Tl1908,190.856 {477},In2306,ppm, 1.025,.0077,.7481, 1.020, 1.031
V_2924,292.402 {115},Y_3600,ppm, .9980,.0086,.8583, .9920, 1.004
Zn2062,206.200 {463},In2306,ppm, 1.011,.0042,.4123, 1.008, 1.014

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 972.96,62.406,6.4141,1017.1,928.83
In2306,230.606 {446},Cts/S, 11606.,36.080,.31088,11631.,11580.
Y_2243,224.306 {450},Cts/S, 19573.,86.883,.44389,19635.,19512.
Y_3600,360.073 { 94},Cts/S, 184590.,153.02,.08290,184690.,184480.
Y_3710,371.030 { 91},Cts/S, 50245.,2976.4,5.9238,52349.,48140.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61809-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:06:27
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0006,894.4, -.0004, .0005
Al3082,308.215 {109},In2306,ppm, .0063,.0154,242.8, -.0045, .0172
As1890,189.042 {478},Y_2243,ppm, .0027,.0011,40.51, .0020, .0035
B_2496,249.678 {135},Y_3710,ppm, .0151,.0030,19.55, .0172, .0130
Ba4554,455.403 { 74},Y_3710,ppm, .1073,.0053,4.908, .1035, .1110
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,13.00, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, 16.99,.8454,4.976, 16.39, 17.59
Ca3181,318.128 {106},In2306,ppm, 16.79,.8307,4.947, 16.20, 17.38
Cd2288,228.802 {447},Y_2243,ppm, .0007,.0007,105.0, .0002, .0012
Co2286,228.616 {447},In2306,ppm, .0016,.0017,109.4, .0004, .0028
Cr2677,267.716 {126},Y_3600,ppm, .0007,.0000,4.810, .0007, .0006
Cu3247,324.754 {104},Y_3600,ppm, .0023,.0002,8.859, .0021, .0024
Fe2404,240.488 {140},In2306,ppm, .0086,.0036,42.07, .0111, .0060
K_7664,766.490 { 44},Y_3710,ppm, .2619,.0481,18.35, .2279, .2959
K_7698,769.896 { 44},Y_3710,ppm, .1855,.0092,4.985, .1920, .1790
Li6707,670.784 { 50},Y_3710,ppm, .0015,.0009,63.95, .0008, .0021
Mg2790,279.079 {121},Y_3710,ppm, .6015,.0241,3.999, .5844, .6185
Mn2576,257.610 {131},Y_3600,ppm, .1259,.0099,7.887, .1330, .1189
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1211,.0046,3.833, .1178, .1244
Mo2020,202.030 {467},Y_2243,ppm, .0043,.0023,53.97, .0026, .0059
```

Na5895,589.592 { 57},Y_3710,ppm, 140.3,4.450,3.172, 137.2, 143.5
Na8183,818.326 { 41},Y_3710,ppm, 140.8,5.740,4.077, 136.7, 144.8
Ni2316,231.604 {445},In2306,ppm, .0023,.0017,75.61, .0011, .0035
P_1782,178.284 {489},In2306,ppm, 1.105,.0165,1.492, 1.117, 1.093
Pb2203,220.353 {453},In2306,ppm, .0008,.0012,148.0, .0000, .0016
S_1820,182.034 {485},Y_2243,ppm, -19.14,5.919,30.92, -14.95, -23.33
Sb2068,206.833 {463},Y_2243,ppm, .0049,.0030,60.25, .0028, .0070
Se1960,196.090 {472},Y_2243,ppm, .0036,.0021,59.54, .0021, .0051
Si2516,251.611 {134},Y_3710,ppm, .1484,.0082,5.518, .1426, .1542
Sn1899,189.989 {477},In2306,ppm, .0019,.0023,119.8, .0003, .0035
Sr4215,421.552 { 80},Y_3710,ppm, .1139,.0049,4.333, .1104, .1174
Ti3349,334.904 {101},Y_3600,ppm, .0010,.0000,.0681, .0010, .0010
Tl1908,190.856 {477},In2306,ppm, .0070,.0081,115.1, .0013, .0127
V_2924,292.402 {115},Y_3600,ppm, .0001,.0001,105.3, .0001, .0000
Zn2062,206.200 {463},In2306,ppm, .4131,.0060,1.441, .4174, .4089

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 962.36,21.659,2.2506,977.68,947.05
In2306,230.606 {446},Cts/S, 11765.,120.96,1.0282,11679.,11850.
Y_2243,224.306 {450},Cts/S, 19452.,229.14,1.1780,19290.,19614.
Y_3600,360.073 { 94},Cts/S, 174290.,10552.,6.0542,166830.,181750.
Y_3710,371.030 { 91},Cts/S, 48827.,1137.9,2.3305,49632.,48023.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89524/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:08:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0008,.0001,7.522, -.0008, -.0008
Al3082,308.215 {109},In2306,ppm, -.0067,.0067,99.43, -.0020, -.0114
As1890,189.042 {478},Y_2243,ppm, .0001,.0002,114.6, .0000, .0003
B_2496,249.678 {135},Y_3710,ppm, .0002,.0003,195.3, -.0001, .0004
Ba4554,455.403 { 74},Y_3710,ppm, .0003,.0002,69.40, .0004, .0002
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,71.21, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0330,.0011,3.381, .0323, .0338
Ca3181,318.128 {106},In2306,ppm, -.0064,.0053,84.08, -.0026, -.0101
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,126.8, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,128.5, .0000, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0001,49.48, .0001, .0002
Cu3247,324.754 {104},Y_3600,ppm, .0003,.0007,225.3, .0008, -.0002
Fe2404,240.488 {140},In2306,ppm, .0022,.0014,65.23, .0032, .0012
K_7664,766.490 { 44},Y_3710,ppm, .0088,.0254,287.5, .0268, -.0091
K_7698,769.896 { 44},Y_3710,ppm, -.0261,.0109,41.83, -.0184, -.0339
Li6707,670.784 { 50},Y_3710,ppm, -.0009,.0008,94.97, -.0003, -.0015
Mg2790,279.079 {121},Y_3710,ppm, .0006,.0040,712.1, -.0023, .0034
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0001,119.9, .0000, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0002,.0001,72.90, .0001, .0003
Mo2020,202.030 {467},Y_2243,ppm, .0004,.0000,6.817, .0004, .0004
Na5895,589.592 { 57},Y_3710,ppm, .1089,.0074,6.755, .1141, .1037
Na8183,818.326 { 41},Y_3710,ppm, .2294,.0179,7.812, .2421, .2167
Ni2316,231.604 {445},In2306,ppm, .0001,.0002,267.9, .0002, -.0001

P_1782,178.284 {489},In2306,ppm, .0008,.0008,98.14, .0002, .0014
Pb2203,220.353 {453},In2306,ppm, -.0003,.0006,212.2, .0001, -.0007
S_1820,182.034 {485},Y_2243,ppm, -1.573,.1572,9.999, -1.461, -1.684
Sb2068,206.833 {463},Y_2243,ppm, -.0003,.0007,220.2, -.0008, .0002
Se1960,196.090 {472},Y_2243,ppm, .0014,.0003,23.00, .0016, .0011
Si2516,251.611 {134},Y_3710,ppm, .0066,.0014,21.94, .0056, .0076
Sn1899,189.989 {477},In2306,ppm, .0001,.0009,714.4, .0008, -.0005
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,61.10, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0001,70.10, -.0001, -.0002
Tl1908,190.856 {477},In2306,ppm, .0002,.0007,371.5, -.0003, .0007
V_2924,292.402 {115},Y_3600,ppm, -.0003,.0001,20.61, -.0002, -.0003
Zn2062,206.200 {463},In2306,ppm, .0024,.0002,8.823, .0023, .0026

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1008.4,7.3705,.73090,1003.2,1013.6
In2306,230.606 {446},Cts/S, 12197.,116.72,.95702,12114.,12279.
Y_2243,224.306 {450},Cts/S, 20108.,178.69,.88866,19981.,20234.
Y_3600,360.073 { 94},Cts/S, 189440.,7245.6,3.8247,194570.,184320.
Y_3710,371.030 { 91},Cts/S, 50446.,619.73,1.2285,50007.,50884.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:11:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2507,.0103,4.113, .2580, .2434
Al3082,308.215 {109},In2306,ppm, 2.559,.1362,5.322, 2.656, 2.463
As1890,189.042 {478},Y_2243,ppm, .4941,.0015,.2957, .4931, .4951
B_2496,249.678 {135},Y_3710,ppm, .5100,.0304,5.953, .5314, .4885
Ba4554,455.403 { 74},Y_3710,ppm, .5121,.0313,6.111, .5342, .4900
Be3130,313.042 {108},Y_3710,ppm, .5218,.0319,6.111, .5444, .4993
Ca3158,315.887 {107},In2306,ppm, 13.09,.7258,5.544, 13.60, 12.58
Ca3181,318.128 {106},In2306,ppm, 12.80,.7050,5.506, 13.30, 12.30
Cd2288,228.802 {447},Y_2243,ppm, .4861,.0019,.3940, .4847, .4874
Co2286,228.616 {447},In2306,ppm, .4840,.0023,.4780, .4824, .4857
Cr2677,267.716 {126},Y_3600,ppm, .4895,.0214,4.377, .5046, .4743
Cu3247,324.754 {104},Y_3600,ppm, .4831,.0191,3.960, .4966, .4695
Fe2404,240.488 {140},In2306,ppm, 2.593,.1271,4.901, 2.683, 2.504
K_7664,766.490 { 44},Y_3710,ppm, 12.91,.8084,6.263, 13.48, 12.34
K_7698,769.896 { 44},Y_3710,ppm, 13.14,.8899,6.770, 13.77, 12.52
Li6707,670.784 { 50},Y_3710,ppm, .5229,.0312,5.968, .5449, .5008
Mg2790,279.079 {121},Y_3710,ppm, 5.166,.3176,6.149, 5.390, 4.941
Mn2576,257.610 {131},Y_3600,ppm, .4957,.0230,4.631, .5119, .4795
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5327,.0361,6.771, .5582, .5072
Mo2020,202.030 {467},Y_2243,ppm, .5151,.0001,.0213, .5150, .5152
Na5895,589.592 { 57},Y_3710,ppm, 13.07,.8405,6.432, 13.66, 12.47
Na8183,818.326 { 41},Y_3710,ppm, 12.95,.5976,4.613, 13.38, 12.53
Ni2316,231.604 {445},In2306,ppm, .4874,.0027,.5537, .4855, .4893
P_1782,178.284 {489},In2306,ppm, .4851,.0045,.9347, .4819, .4883
Pb2203,220.353 {453},In2306,ppm, .4829,.0025,.5215, .4811, .4847
S_1820,182.034 {485},Y_2243,ppm, -205.9,1.314,.6383, -204.9, -206.8

```
Sb2068,206.833 {463},Y_2243,ppm, .4919,.0019,.3963, .4905, .4932
Se1960,196.090 {472},Y_2243,ppm, .4964,.0012,.2508, .4955, .4973
Si2516,251.611 {134},Y_3710,ppm, 1.012,.0706,6.968, 1.062, .9626
Sn1899,189.989 {477},In2306,ppm, .5062,.0028,.5598, .5042, .5082
Sr4215,421.552 { 80},Y_3710,ppm, .2621,.0165,6.312, .2738, .2504
Ti3349,334.904 {101},Y_3600,ppm, .4947,.0218,4.401, .5101, .4793
Tl1908,190.856 {477},In2306,ppm, .4930,.0018,.3734, .4943, .4917
V_2924,292.402 {115},Y_3600,ppm, .4947,.0218,4.402, .5101, .4793
Zn2062,206.200 {463},In2306,ppm, .4829,.0021,.4258, .4815, .4844

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 941.18,57.567,6.1164,900.48,981.89
In2306,230.606 {446},Cts/S, 11977.,39.632,.33090,12005.,11949.
Y_2243,224.306 {450},Cts/S, 19633.,47.934,.24415,19667.,19599.
Y_3600,360.073 { 94},Cts/S, 186770.,5942.8,3.1819,182570.,190970.
Y_3710,371.030 { 91},Cts/S, 47017.,3310.1,7.0404,44676.,49357.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:13:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0063,.0013,19.85, .0072, .0054
Al3082,308.215 {109},In2306,ppm, .0922,.0126,13.68, .0833, .1011
As1890,189.042 {478},Y_2243,ppm, .0097,.0002,1.919, .0099, .0096
B_2496,249.678 {135},Y_3710,ppm, .0126,.0044,35.37, .0157, .0094
Ba4554,455.403 { 74},Y_3710,ppm, .0103,.0003,3.142, .0101, .0105
Be3130,313.042 {108},Y_3710,ppm, .0052,.0001,2.527, .0051, .0053
Ca3158,315.887 {107},In2306,ppm, .1230,.0076,6.151, .1176, .1283
Ca3181,318.128 {106},In2306,ppm, .0908,.0115,12.64, .0827, .0989
Cd2288,228.802 {447},Y_2243,ppm, .0052,.0002,3.755, .0053, .0050
Co2286,228.616 {447},In2306,ppm, .0101,.0004,4.449, .0104, .0097
Cr2677,267.716 {126},Y_3600,ppm, .0106,.0003,3.267, .0108, .0103
Cu3247,324.754 {104},Y_3600,ppm, .0114,.0003,2.466, .0116, .0112
Fe2404,240.488 {140},In2306,ppm, .0995,.0014,1.442, .1005, .0985
K_7664,766.490 { 44},Y_3710,ppm, .5973,.0137,2.301, .6070, .5876
K_7698,769.896 { 44},Y_3710,ppm, .5665,.0097,1.711, .5597, .5734
Li6707,670.784 { 50},Y_3710,ppm, .0104,.0002,2.097, .0106, .0103
Mg2790,279.079 {121},Y_3710,ppm, .1052,.0031,2.900, .1030, .1074
Mn2576,257.610 {131},Y_3600,ppm, .0106,.0002,2.148, .0107, .0104
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0110,.0005,4.914, .0106, .0114
Mo2020,202.030 {467},Y_2243,ppm, .0114,.0003,2.796, .0116, .0111
Na5895,589.592 { 57},Y_3710,ppm, .6014,.0189,3.149, .5880, .6148
Na8183,818.326 { 41},Y_3710,ppm, .7071,.0587,8.307, .7486, .6655
Ni2316,231.604 {445},In2306,ppm, .0102,.0006,5.626, .0106, .0098
P_1782,178.284 {489},In2306,ppm, .0085,.0003,3.531, .0087, .0083
Pb2203,220.353 {453},In2306,ppm, .0100,.0009,9.336, .0106, .0093
S_1820,182.034 {485},Y_2243,ppm, -.4871,.1178,24.19, -.4038, -.5704
Sb2068,206.833 {463},Y_2243,ppm, .0109,.0004,3.552, .0107, .0112
Se1960,196.090 {472},Y_2243,ppm, .0101,.0017,16.99, .0089, .0114
Si2516,251.611 {134},Y_3710,ppm, .0115,.0007,5.927, .0110, .0120
```

Sn1899,189.989 {477},In2306,ppm, .0105,.0000,.0016, .0105, .0105
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0001,1.253, .0051, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0105,.0001,1.249, .0106, .0104
Tl1908,190.856 {477},In2306,ppm, .0083,.0015,17.66, .0094, .0073
V_2924,292.402 {115},Y_3600,ppm, .0105,.0004,4.095, .0108, .0102
Zn2062,206.200 {463},In2306,ppm, .0104,.0005,4.514, .0107, .0100

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 996.81,14.701,1.4748,1007.2,986.41
In2306,230.606 {446},Cts/S, 12028.,478.37,3.9770,11690.,12367.
Y_2243,224.306 {450},Cts/S, 19877.,814.47,4.0975,19301.,20453.
Y_3600,360.073 { 94},Cts/S, 185660.,3213.3,1.7308,183390.,187930.
Y_3710,371.030 { 91},Cts/S, 49381.,4.8914,.00991,49385.,49378.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:15:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0003,.0003,92.38, -.0005, -.0001
Al3082,308.215 {109},In2306,ppm, -.0017,.0069,414.8, .0032, -.0066
As1890,189.042 {478},Y_2243,ppm, -.0003,.0002,71.39, -.0001, -.0004
B_2496,249.678 {135},Y_3710,ppm, -.0013,.0006,48.01, -.0018, -.0009
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,633.5, .0000, .0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,12.31, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, -.0031,.0036,116.7, -.0005, -.0056
Ca3181,318.128 {106},In2306,ppm, -.0262,.0203,77.51, -.0406, -.0118
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,31.40, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0001,87.20, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0003,311.8, -.0001, .0003
Cu3247,324.754 {104},Y_3600,ppm, .0011,.0002,21.84, .0013, .0010
Fe2404,240.488 {140},In2306,ppm, .0008,.0013,161.3, -.0001, .0017
K_7664,766.490 { 44},Y_3710,ppm, -.0026,.0271,1037., -.0218, .0166
K_7698,769.896 { 44},Y_3710,ppm, -.0450,.0569,126.5, -.0047, -.0852
Li6707,670.784 { 50},Y_3710,ppm, -.0010,.0005,52.26, -.0014, -.0006
Mg2790,279.079 {121},Y_3710,ppm, -.0036,.0031,85.58, -.0058, -.0014
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0000,27.02, .0001, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0002,.0003,105.7, .0001, .0004
Mo2020,202.030 {467},Y_2243,ppm, .0004,.0002,50.48, .0002, .0005
Na5895,589.592 { 57},Y_3710,ppm, -.0101,.0033,32.53, -.0125, -.0078
Na8183,818.326 { 41},Y_3710,ppm, .1798,.0567,31.56, .1396, .2199
Ni2316,231.604 {445},In2306,ppm, -.0003,.0001,32.23, -.0002, -.0003
P_1782,178.284 {489},In2306,ppm, -.0005,.0005,83.82, -.0009, -.0002
Pb2203,220.353 {453},In2306,ppm, .0009,.0008,84.70, .0014, .0004
S_1820,182.034 {485},Y_2243,ppm, -.1679,.1280,76.25, -.0774, -.2584
Sb2068,206.833 {463},Y_2243,ppm, .0002,.0014,641.6, .0012, -.0008
Se1960,196.090 {472},Y_2243,ppm, -.0007,.0010,131.0, -.0014, -.0001
Si2516,251.611 {134},Y_3710,ppm, -.0013,.0002,11.87, -.0012, -.0014
Sn1899,189.989 {477},In2306,ppm, -.0006,.0013,197.3, -.0015, .0003
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,9.073, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0001,280.2, .0000, -.0001

Tl1908,190.856 {477},In2306,ppm, -.0006,.0011,184.2, .0002, -.0014
V_2924,292.402 {115},Y_3600,ppm, -.0003,.0001,41.73, -.0002, -.0004
Zn2062,206.200 {463},In2306,ppm, .0000,.0000,212.4, .0000, .0000

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 992.70,14.280,1.4385,982.60,1002.8
In2306,230.606 {446},Cts/S, 11875.,247.23,2.0819,11701.,12050.
Y_2243,224.306 {450},Cts/S, 19623.,421.05,2.1457,19325.,19920.
Y_3600,360.073 { 94},Cts/S, 186730.,7088.2,3.7960,191740.,181720.
Y_3710,371.030 { 91},Cts/S, 49626.,1031.5,2.0786,48897.,50355.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61536-b-5-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:18:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0010,22260., .0007, -.0007
Al3082,308.215 {109},In2306,ppm, -.0076,.0027,35.11, -.0095, -.0057
As1890,189.042 {478},Y_2243,ppm, .0009,.0003,28.70, .0011, .0007
B_2496,249.678 {135},Y_3710,ppm, .0103,.0019,18.25, .0116, .0089
Ba4554,455.403 { 74},Y_3710,ppm, .1871,.0022,1.168, .1855, .1886
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,22.56, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 193.7,3.794,1.959, 191.0, 196.4
Ca3181,318.128 {106},In2306,ppm, 190.0,3.574,1.881, 187.5, 192.5
Cd2288,228.802 {447},Y_2243,ppm, .0008,.0001,13.50, .0009, .0007
Co2286,228.616 {447},In2306,ppm, .0018,.0000,1.908, .0018, .0018
Cr2677,267.716 {126},Y_3600,ppm, .0014,.0001,5.527, .0014, .0013
Cu3247,324.754 {104},Y_3600,ppm, .0024,.0000,1.214, .0024, .0025
Fe2404,240.488 {140},In2306,ppm, .0269,.0017,6.226, .0281, .0257
K_7664,766.490 { 44},Y_3710,ppm, .3358,.0175,5.218, .3482, .3234
K_7698,769.896 { 44},Y_3710,ppm, .3422,.0652,19.05, .3883, .2961
Li6707,670.784 { 50},Y_3710,ppm, .0058,.0007,12.73, .0063, .0053
Mg2790,279.079 {121},Y_3710,ppm, 1.748,.0268,1.533, 1.729, 1.767
Mn2576,257.610 {131},Y_3600,ppm, .7318,.0496,6.771, .6967, .7668
Mn2576-2,257.610 {131}2,Y_3710,ppm, .7457,.0126,1.689, .7368, .7546
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0002,40.88, -.0006, -.0003
Na5895,589.592 { 57},Y_3710,ppm, 1.535,.0132,.8618, 1.526, 1.545
Na8183,818.326 { 41},Y_3710,ppm, 1.655,.0069,.4141, 1.650, 1.659
Ni2316,231.604 {445},In2306,ppm, .0049,.0001,1.044, .0050, .0049
P_1782,178.284 {489},In2306,ppm, .0032,.0010,31.54, .0025, .0039
Pb2203,220.353 {453},In2306,ppm, .0072,.0019,25.99, .0059, .0085
S_1820,182.034 {485},Y_2243,ppm, -36.56,.3057,.8363, -36.34, -36.78
Sb2068,206.833 {463},Y_2243,ppm, -.0020,.0006,30.15, -.0016, -.0024
Se1960,196.090 {472},Y_2243,ppm, .0023,.0011,47.93, .0015, .0031
Si2516,251.611 {134},Y_3710,ppm, .3360,.0021,.6331, .3375, .3345
Sn1899,189.989 {477},In2306,ppm, -.0005,.0010,191.5, -.0012, .0002
Sr4215,421.552 { 80},Y_3710,ppm, .3102,.0038,1.217, .3076, .3129
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0005,44.27, .0008, .0015
Tl1908,190.856 {477},In2306,ppm, -.0003,.0005,169.4, -.0007, .0001
V_2924,292.402 {115},Y_3600,ppm, -.0008,.0003,31.78, -.0006, -.0010
Zn2062,206.200 {463},In2306,ppm, .0877,.0002,.1945, .0878, .0876

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 976.92,3.4979,.35805,979.39,974.45
In2306,230.606 {446},Cts/S, 11662.,6.0210,.05163,11657.,11666.
Y_2243,224.306 {450},Cts/S, 19021.,22.291,.11719,19005.,19037.
Y_3600,360.073 { 94},Cts/S, 184290.,9410.1,5.1061,190950.,177640.
Y_3710,371.030 { 91},Cts/S, 49621.,130.78,.26356,49529.,49714.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61536-b-6-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:20:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0010,.0001,9.714, -.0011, -.0010
Al3082,308.215 {109},In2306,ppm, -.0110,.0148,135.5, -.0005, -.0215
As1890,189.042 {478},Y_2243,ppm, .0016,.0002,12.96, .0018, .0015
B_2496,249.678 {135},Y_3710,ppm, .0091,.0029,32.22, .0111, .0070
Ba4554,455.403 { 74},Y_3710,ppm, .1134,.0032,2.824, .1156, .1111
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,5.931, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 200.0,5.417,2.709, 203.8, 196.1
Ca3181,318.128 {106},In2306,ppm, 194.2,5.297,2.727, 198.0, 190.5
Cd2288,228.802 {447},Y_2243,ppm, .0012,.0001,7.533, .0011, .0012
Co2286,228.616 {447},In2306,ppm, .0026,.0000,.4369, .0026, .0026
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0005,45.41, .0014, .0007
Cu3247,324.754 {104},Y_3600,ppm, .0029,.0000,.3721, .0029, .0029
Fe2404,240.488 {140},In2306,ppm, .0101,.0015,14.82, .0112, .0091
K_7664,766.490 { 44},Y_3710,ppm, .5594,.0161,2.875, .5480, .5707
K_7698,769.896 { 44},Y_3710,ppm, .5780,.0875,15.14, .6399, .5162
Li6707,670.784 { 50},Y_3710,ppm, .0057,.0007,11.85, .0062, .0052
Mg2790,279.079 {121},Y_3710,ppm, 1.545,.0287,1.856, 1.565, 1.524
Mn2576,257.610 {131},Y_3600,ppm, .4688,.0331,7.069, .4922, .4453
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4698,.0161,3.420, .4812, .4584
Mo2020,202.030 {467},Y_2243,ppm, -.0007,.0003,45.73, -.0005, -.0010
Na5895,589.592 { 57},Y_3710,ppm, .9550,.0167,1.750, .9668, .9432
Na8183,818.326 { 41},Y_3710,ppm, .9008,.0587,6.519, .8593, .9424
Ni2316,231.604 {445},In2306,ppm, .0053,.0002,3.585, .0052, .0055
P_1782,178.284 {489},In2306,ppm, .0024,.0015,62.51, .0035, .0014
Pb2203,220.353 {453},In2306,ppm, .0250,.0013,5.173, .0241, .0259
S_1820,182.034 {485},Y_2243,ppm, -40.49,.9745,2.407, -39.80, -41.18
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0013,106.3, -.0003, -.0021
Se1960,196.090 {472},Y_2243,ppm, .0019,.0004,22.80, .0022, .0016
Si2516,251.611 {134},Y_3710,ppm, .2245,.0067,2.966, .2292, .2198
Sn1899,189.989 {477},In2306,ppm, .0003,.0002,75.83, .0004, .0001
Sr4215,421.552 { 80},Y_3710,ppm, .2649,.0072,2.702, .2700, .2598
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0002,18.28, .0013, .0010
Tl1908,190.856 {477},In2306,ppm, -.0002,.0002,110.6, .0000, -.0003
V_2924,292.402 {115},Y_3600,ppm, .0001,.0001,86.82, .0002, .0001
Zn2062,206.200 {463},In2306,ppm, .1092,.0044,4.028, .1061, .1123

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

In2306,230.606 {146},Cts/S, 972.46,28.171,2.8969,952.54,992.38
In2306,230.606 {446},Cts/S, 11624.,321.74,2.7679,11852.,11397.
Y_2243,224.306 {450},Cts/S, 18939.,462.17,2.4402,19266.,18613.
Y_3600,360.073 { 94},Cts/S, 180660.,10132.,5.6080,173500.,187830.
Y_3710,371.030 { 91},Cts/S, 49545.,1659.3,3.3490,48372.,50718.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61743-a-1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:23:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0005,.0011,226.3, -.0003, .0013
Al3082,308.215 {109},In2306,ppm, -.0150,.0052,34.80, -.0113, -.0187
As1890,189.042 {478},Y_2243,ppm, -.0005,.0015,315.2, -.0016, .0006
B_2496,249.678 {135},Y_3710,ppm, .0085,.0013,14.98, .0076, .0094
Ba4554,455.403 { 74},Y_3710,ppm, .0687,.0020,2.980, .0673, .0702
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,11.17, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 179.1,5.748,3.209, 175.1, 183.2
Ca3181,318.128 {106},In2306,ppm, 175.0,5.804,3.316, 170.9, 179.1
Cd2288,228.802 {447},Y_2243,ppm, .0018,.0001,3.101, .0018, .0017
Co2286,228.616 {447},In2306,ppm, .0000,.0001,786.9, -.0001, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0001,6.253, .0010, .0010
Cu3247,324.754 {104},Y_3600,ppm, .0004,.0003,70.77, .0006, .0002
Fe2404,240.488 {140},In2306,ppm, .0057,.0027,47.66, .0076, .0038
K_7664,766.490 { 44},Y_3710,ppm, .0407,.0088,21.62, .0469, .0345
K_7698,769.896 { 44},Y_3710,ppm, .0936,.0341,36.40, .0695, .1176
Li6707,670.784 { 50},Y_3710,ppm, .0049,.0004,9.092, .0046, .0052
Mg2790,279.079 {121},Y_3710,ppm, .8762,.0117,1.330, .8679, .8844
Mn2576,257.610 {131},Y_3600,ppm, .0914,.0005,.5264, .0911, .0917
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0932,.0024,2.573, .0915, .0949
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0000,2.774, -.0005, -.0005
Na5895,589.592 { 57},Y_3710,ppm, .8902,.0262,2.943, .8717, .9087
Na8183,818.326 { 41},Y_3710,ppm, .9296,.0197,2.119, .9156, .9435
Ni2316,231.604 {445},In2306,ppm, .0006,.0000,7.227, .0006, .0007
P_1782,178.284 {489},In2306,ppm, .0013,.0000,2.738, .0013, .0013
Pb2203,220.353 {453},In2306,ppm, -.0007,.0005,72.92, -.0010, -.0003
S_1820,182.034 {485},Y_2243,ppm, -13.76,.4612,3.352, -14.09, -13.43
Sb2068,206.833 {463},Y_2243,ppm, -.0021,.0007,35.24, -.0016, -.0026
Se1960,196.090 {472},Y_2243,ppm, .0020,.0007,33.84, .0015, .0024
Si2516,251.611 {134},Y_3710,ppm, .3509,.0090,2.564, .3445, .3572
Sn1899,189.989 {477},In2306,ppm, .0001,.0001,221.6, .0000, .0001
Sr4215,421.552 { 80},Y_3710,ppm, .2739,.0092,3.374, .2674, .2804
Ti3349,334.904 {101},Y_3600,ppm, .0012,.0005,37.75, .0009, .0015
Tl1908,190.856 {477},In2306,ppm, .0007,.0003,39.06, .0005, .0009
V_2924,292.402 {115},Y_3600,ppm, .0003,.0001,40.94, .0003, .0002
Zn2062,206.200 {463},In2306,ppm, .0102,.0000,.0345, .0102, .0102

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 958.83,16.933,1.7660,970.80,946.85
In2306,230.606 {446},Cts/S, 11608.,93.964,.80950,11541.,11674.
Y_2243,224.306 {450},Cts/S, 18950.,120.61,.63645,18865.,19035.

Y_3600,360.073 { 94},Cts/S, 180880.,758.47,.41933,181410.,180340.
Y_3710,371.030 { 91},Cts/S, 48524.,694.14,1.4305,49015.,48033.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=PDS 600-61779-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:25:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5054,.0043,.8544, .5024, .5085
Al3082,308.215 {109},In2306,ppm, 28.55,.4242,1.486, 28.25, 28.85
As1890,189.042 {478},Y_2243,ppm, 1.035,.0491,4.742, 1.070, 1.000
B_2496,249.678 {135},Y_3710,ppm, .9792,.0165,1.689, .9675, .9909
Ba4554,455.403 { 74},Y_3710,ppm, .9985,.0089,.8896, .9922, 1.005
Be3130,313.042 {108},Y_3710,ppm, .4935,.0066,1.341, .4888, .4982
Ca3158,315.887 {107},In2306,ppm, 28.71,.2829,.9857, 28.51, 28.91
Ca3181,318.128 {106},In2306,ppm, 28.45,.3936,1.383, 28.18, 28.73
Cd2288,228.802 {447},Y_2243,ppm, .5029,.0248,4.940, .5205, .4854
Co2286,228.616 {447},In2306,ppm, .9936,.0495,4.982, 1.029, .9586
Cr2677,267.716 {126},Y_3600,ppm, .9672,.0022,.2299, .9687, .9656
Cu3247,324.754 {104},Y_3600,ppm, .9882,.0012,.1203, .9873, .9890
Fe2404,240.488 {140},In2306,ppm, 9.987,.1617,1.619, 9.872, 10.10
K_7664,766.490 { 44},Y_3710,ppm, 11.43,.0989,.8656, 11.36, 11.50
K_7698,769.896 { 44},Y_3710,ppm, 11.60,.0386,.3326, 11.58, 11.63
Li6707,670.784 { 50},Y_3710,ppm, 1.082,.0118,1.091, 1.074, 1.091
Mg2790,279.079 {121},Y_3710,ppm, 9.807,.0931,.9496, 9.741, 9.873
Mn2576,257.610 {131},Y_3600,ppm, .9942,.0028,.2829, .9962, .9922
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.005,.0088,.8725, .9990, 1.011
Mo2020,202.030 {467},Y_2243,ppm, 1.022,.0536,5.245, 1.060, .9845
Na5895,589.592 { 57},Y_3710,ppm, 146.3,4.954,3.387, 142.8, 149.8
Na8183,818.326 { 41},Y_3710,ppm, 151.5,1.444,.9530, 150.5, 152.5
Ni2316,231.604 {445},In2306,ppm, 1.004,.0487,4.846, 1.039, .9699
P_1782,178.284 {489},In2306,ppm, 1.206,.0531,4.401, 1.244, 1.169
Pb2203,220.353 {453},In2306,ppm, 1.023,.0492,4.808, 1.058, .9881
S_1820,182.034 {485},Y_2243,ppm, -7390.,349.3,4.727, -7637., -7143.
Sb2068,206.833 {463},Y_2243,ppm, .9895,.0482,4.873, 1.024, .9554
Se1960,196.090 {472},Y_2243,ppm, 1.040,.0502,4.827, 1.075, 1.004
Si2516,251.611 {134},Y_3710,ppm, 1.272,.0132,1.038, 1.263, 1.281
Sn1899,189.989 {477},In2306,ppm, 1.020,.0532,5.217, 1.057, .9819
Sr4215,421.552 { 80},Y_3710,ppm, .6019,.0051,.8553, .5982, .6055
Ti3349,334.904 {101},Y_3600,ppm, 1.143,.0026,.2244, 1.145, 1.141
Tl1908,190.856 {477},In2306,ppm, 1.012,.0475,4.693, 1.045, .9783
V_2924,292.402 {115},Y_3600,ppm, .9862,.0019,.1929, .9849, .9875
Zn2062,206.200 {463},In2306,ppm, 1.022,.0517,5.056, 1.058, .9852

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 966.93,6.6481,.68755,971.63,962.23
In2306,230.606 {446},Cts/S, 11355.,460.18,4.0526,11030.,11681.
Y_2243,224.306 {450},Cts/S, 19070.,750.33,3.9347,18539.,19600.
Y_3600,360.073 { 94},Cts/S, 181510.,33.727,.01858,181540.,181490.
Y_3710,371.030 { 91},Cts/S, 49580.,171.39,.34568,49701.,49459.

```
[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=SD 600-61779-a-1-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:27:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0003,.0008,254.2, .0002, -.0008
Al3082,308.215 {109},In2306,ppm, 3.798,.0324,.8525, 3.821, 3.775
As1890,189.042 {478},Y_2243,ppm, .0010,.0002,18.52, .0011, .0009
B_2496,249.678 {135},Y_3710,ppm, .0045,.0016,35.04, .0057, .0034
Ba4554,455.403 { 74},Y_3710,ppm, .0025,.0002,8.163, .0026, .0023
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,16.74, .0003, .0002
Ca3158,315.887 {107},In2306,ppm, 3.807,.1234,3.241, 3.894, 3.720
Ca3181,318.128 {106},In2306,ppm, 3.729,.1081,2.898, 3.806, 3.653
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0003,134.6, .0000, .0004
Co2286,228.616 {447},In2306,ppm, .0005,.0005,109.5, .0001, .0009
Cr2677,267.716 {126},Y_3600,ppm, .0019,.0003,15.94, .0021, .0017
Cu3247,324.754 {104},Y_3600,ppm, .0010,.0000,2.608, .0009, .0010
Fe2404,240.488 {140},In2306,ppm, .0186,.0024,13.16, .0168, .0203
K_7664,766.490 { 44},Y_3710,ppm, .3305,.0277,8.383, .3501, .3109
K_7698,769.896 { 44},Y_3710,ppm, .2966,.0244,8.215, .3139, .2794
Li6707,670.784 { 50},Y_3710,ppm, .0211,.0003,1.575, .0213, .0208
Mg2790,279.079 {121},Y_3710,ppm, .0392,.0033,8.493, .0415, .0368
Mn2576,257.610 {131},Y_3600,ppm, .0017,.0001,4.824, .0018, .0017
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0021,.0019,89.55, .0034, .0008
Mo2020,202.030 {467},Y_2243,ppm, .0027,.0012,43.08, .0019, .0036
Na5895,589.592 { 57},Y_3710,ppm, 29.08,.9775,3.362, 29.77, 28.38
Na8183,818.326 { 41},Y_3710,ppm, 28.96,.6439,2.224, 29.41, 28.50
Ni2316,231.604 {445},In2306,ppm, .0023,.0005,23.21, .0019, .0027
P_1782,178.284 {489},In2306,ppm, .0315,.0003,1.078, .0313, .0318
Pb2203,220.353 {453},In2306,ppm, .0028,.0006,20.61, .0024, .0032
S_1820,182.034 {485},Y_2243,ppm, -1443.,2.144,.1485, -1442., -1445.
Sb2068,206.833 {463},Y_2243,ppm, .0030,.0024,79.91, .0013, .0048
Se1960,196.090 {472},Y_2243,ppm, .0005,.0009,169.4, -.0001, .0011
Si2516,251.611 {134},Y_3710,ppm, .0633,.0001,.1553, .0632, .0633
Sn1899,189.989 {477},In2306,ppm, .0007,.0012,184.7, -.0002, .0015
Sr4215,421.552 { 80},Y_3710,ppm, .0220,.0007,3.209, .0225, .0215
Ti3349,334.904 {101},Y_3600,ppm, .0332,.0001,.4011, .0333, .0331
Tl1908,190.856 {477},In2306,ppm, .0003,.0006,204.3, -.0001, .0007
V_2924,292.402 {115},Y_3600,ppm, .0016,.0001,6.648, .0016, .0015
Zn2062,206.200 {463},In2306,ppm, .0071,.0006,8.659, .0066, .0075

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 975.27,33.279,3.4123,951.73,998.80
In2306,230.606 {446},Cts/S, 11986.,24.165,.20161,12003.,11969.
Y_2243,224.306 {450},Cts/S, 19679.,40.434,.20547,19708.,19651.
Y_3600,360.073 { 94},Cts/S, 188150.,1843.1,.97959,186840.,189450.
Y_3710,371.030 { 91},Cts/S, 48786.,1481.2,3.0361,47738.,49833.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61936-a-1-a@5
```

```
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:30:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0006,.0017,273.2, .0019, -.0006
Al3082,308.215 {109},In2306,ppm, .0028,.0088,317.3, .0090, -.0035
As1890,189.042 {478},Y_2243,ppm, .0027,.0009,34.92, .0020, .0034
B_2496,249.678 {135},Y_3710,ppm, .3328,.0023,.6834, .3312, .3345
Ba4554,455.403 { 74},Y_3710,ppm, .0153,.0001,.7819, .0152, .0154
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,260.9, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 33.60,.0702,.2090, 33.55, 33.65
Ca3181,318.128 {106},In2306,ppm, 33.34,.3270,.9806, 33.11, 33.58
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,62.49, .0002, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0001,84.04, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0006,.0003,54.18, .0008, .0004
Cu3247,324.754 {104},Y_3600,ppm, .0012,.0003,28.78, .0010, .0014
Fe2404,240.488 {140},In2306,ppm, .0277,.0004,1.382, .0274, .0280
K_7664,766.490 { 44},Y_3710,ppm, 28.68,.0919,.3204, 28.61, 28.74
K_7698,769.896 { 44},Y_3710,ppm, 29.02,.1373,.4730, 28.92, 29.12
Li6707,670.784 { 50},Y_3710,ppm, .0144,.0002,1.542, .0146, .0143
Mg2790,279.079 {121},Y_3710,ppm, 91.81,.6709,.7308, 91.33, 92.28
Mn2576,257.610 {131},Y_3600,ppm, .0170,.0001,.4868, .0171, .0169
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0183,.0001,.7473, .0182, .0184
Mo2020,202.030 {467},Y_2243,ppm, .0027,.0004,15.50, .0030, .0024
Na5895,589.592 { 57},Y_3710,ppm, 740.6,31.38,4.237, 718.4, 762.8
Na8183,818.326 { 41},Y_3710,ppm, 784.7,2.861,.3646, 782.7, 786.7
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,24.56, .0005, .0004
P_1782,178.284 {489},In2306,ppm, .0604,.0021,3.447, .0589, .0619
Pb2203,220.353 {453},In2306,ppm, .0001,.0003,243.6, .0004, -.0001
S_1820,182.034 {485},Y_2243,ppm, -9498.,114.5,1.205, -9417., -9579.
Sb2068,206.833 {463},Y_2243,ppm, -.0023,.0005,21.64, -.0027, -.0020
Se1960,196.090 {472},Y_2243,ppm, .0010,.0020,190.9, .0024, -.0004
Si2516,251.611 {134},Y_3710,ppm, .9958,.0078,.7802, .9903, 1.001
Sn1899,189.989 {477},In2306,ppm, -.0005,.0004,86.43, -.0002, -.0008
Sr4215,421.552 { 80},Y_3710,ppm, .5582,.0022,.3928, .5566, .5597
Ti3349,334.904 {101},Y_3600,ppm, .0008,.0003,34.05, .0010, .0006
Tl1908,190.856 {477},In2306,ppm, -.0023,.0006,24.09, -.0027, -.0019
V_2924,292.402 {115},Y_3600,ppm, -.0012,.0005,39.35, -.0009, -.0016
Zn2062,206.200 {463},In2306,ppm, .0091,.0001,1.356, .0090, .0092

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 917.97,3.2740,.35665,920.28,915.65
In2306,230.606 {446},Cts/S, 10888.,118.12,1.0848,10972.,10805.
Y_2243,224.306 {450},Cts/S, 18730.,211.43,1.1288,18880.,18581.
Y_3600,360.073 { 94},Cts/S, 168770.,805.86,.47749,169340.,168200.
Y_3710,371.030 { 91},Cts/S, 46617.,20.415,.04379,46631.,46603.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61937-a-2-a@5
Username=admin
Comment=
Custom ID1=
```

Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:32:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0007,1974., .0005, -.0004
Al3082,308.215 {109},In2306,ppm, .0005,.0018,362.5, .0017, -.0008
As1890,189.042 {478},Y_2243,ppm, .0019,.0004,21.90, .0016, .0022
B_2496,249.678 {135},Y_3710,ppm, .3253,.0111,3.410, .3175, .3332
Ba4554,455.403 { 74},Y_3710,ppm, .0138,.0004,3.254, .0134, .0141
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,3454., -.0001, .0001
Ca3158,315.887 {107},In2306,ppm, 33.31,1.168,3.507, 32.48, 34.13
Ca3181,318.128 {106},In2306,ppm, 32.98,1.140,3.456, 32.17, 33.78
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,70.71, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,57.53, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0003,28.89, .0012, .0008
Cu3247,324.754 {104},Y_3600,ppm, .0009,.0004,49.33, .0012, .0006
Fe2404,240.488 {140},In2306,ppm, .7455,.0284,3.810, .7254, .7656
K_7664,766.490 { 44},Y_3710,ppm, 28.79,.8843,3.072, 28.16, 29.41
K_7698,769.896 { 44},Y_3710,ppm, 29.01,.9640,3.323, 28.33, 29.69
Li6707,670.784 { 50},Y_3710,ppm, .0166,.0015,9.049, .0156, .0177
Mg2790,279.079 {121},Y_3710,ppm, 90.87,3.704,4.077, 88.25, 93.49
Mn2576,257.610 {131},Y_3600,ppm, .0637,.0002,.2925, .0635, .0638
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0679,.0029,4.296, .0659, .0700
Mo2020,202.030 {467},Y_2243,ppm, .0009,.0000,3.733, .0008, .0009
Na5895,589.592 { 57},Y_3710,ppm, 740.3,55.89,7.549, 700.8, 779.8
Na8183,818.326 { 41},Y_3710,ppm, 787.4,25.28,3.210, 769.5, 805.3
Ni2316,231.604 {445},In2306,ppm, .0004,.0002,38.25, .0003, .0005
P_1782,178.284 {489},In2306,ppm, .0063,.0009,13.85, .0069, .0057
Pb2203,220.353 {453},In2306,ppm, -.0001,.0009,793.2, -.0007, .0005
S_1820,182.034 {485},Y_2243,ppm, -9617.,85.73,.8914, -9678., -9557.
Sb2068,206.833 {463},Y_2243,ppm, -.0038,.0001,1.558, -.0038, -.0039
Se1960,196.090 {472},Y_2243,ppm, .0006,.0003,59.52, .0003, .0008
Si2516,251.611 {134},Y_3710,ppm, .5503,.0193,3.515, .5367, .5640
Sn1899,189.989 {477},In2306,ppm, -.0009,.0003,38.27, -.0006, -.0011
Sr4215,421.552 { 80},Y_3710,ppm, .5581,.0197,3.532, .5442, .5721
Ti3349,334.904 {101},Y_3600,ppm, .0005,.0000,9.939, .0005, .0004
Tl1908,190.856 {477},In2306,ppm, -.0005,.0010,206.6, -.0012, .0002
V_2924,292.402 {115},Y_3600,ppm, -.0012,.0001,6.270, -.0011, -.0012
Zn2062,206.200 {463},In2306,ppm, .0041,.0000,.1894, .0041, .0041

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 923.54,22.938,2.4837,939.76,907.32
In2306,230.606 {446},Cts/S, 10776.,72.500,.67279,10725.,10827.
Y_2243,224.306 {450},Cts/S, 18429.,111.00,.60231,18351.,18508.
Y_3600,360.073 { 94},Cts/S, 171160.,1539.7,.89956,172250.,170080.
Y_3710,371.030 { 91},Cts/S, 46883.,1306.4,2.7865,47807.,45959.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=mb 600-89696/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:35:06

```
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0012,325.2, .0012, -.0005
Al3082,308.215 {109},In2306,ppm, -.0059,.0083,140.3, .0000, -.0118
As1890,189.042 {478},Y_2243,ppm, -.0006,.0001,17.48, -.0006, -.0007
B_2496,249.678 {135},Y_3710,ppm, .0005,.0012,239.2, -.0003, .0013
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0000,12.19, .0002, .0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,1.651, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0152,.0026,17.13, .0171, .0134
Ca3181,318.128 {106},In2306,ppm, -.0163,.0034,21.09, -.0187, -.0139
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,24.59, .0001, .0001
Co2286,228.616 {447},In2306,ppm, -.0001,.0000,12.85, -.0001, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0001,94.18, .0001, .0000
Cu3247,324.754 {104},Y_3600,ppm, .0005,.0003,65.05, .0003, .0007
Fe2404,240.488 {140},In2306,ppm, .0037,.0016,43.22, .0026, .0049
K_7664,766.490 { 44},Y_3710,ppm, .0650,.0081,12.46, .0707, .0593
K_7698,769.896 { 44},Y_3710,ppm, .0695,.0604,86.99, .0267, .1122
Li6707,670.784 { 50},Y_3710,ppm, .0011,.0001,8.473, .0011, .0012
Mg2790,279.079 {121},Y_3710,ppm, .0209,.0097,46.22, .0277, .0141
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0000,14.56, .0000, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0000,.0003,1159., .0003, -.0002
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0004,84.14, -.0008, -.0002
Na5895,589.592 { 57},Y_3710,ppm, .3228,.0645,19.99, .3685, .2772
Na8183,818.326 { 41},Y_3710,ppm, .3414,.0524,15.36, .3784, .3043
Ni2316,231.604 {445},In2306,ppm, .0000,.0001,271.9, .0001, .0000
P_1782,178.284 {489},In2306,ppm, -.0003,.0001,45.55, -.0002, -.0003
Pb2203,220.353 {453},In2306,ppm, -.0001,.0006,655.1, -.0006, .0004
S_1820,182.034 {485},Y_2243,ppm, -2.836,1.414,49.86, -1.836, -3.836
Sb2068,206.833 {463},Y_2243,ppm, -.0003,.0016,629.2, -.0014, .0009
Se1960,196.090 {472},Y_2243,ppm, .0002,.0012,539.7, -.0006, .0011
Si2516,251.611 {134},Y_3710,ppm, .0081,.0006,7.920, .0086, .0077
Sn1899,189.989 {477},In2306,ppm, .0001,.0005,607.2, -.0003, .0004
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0002,148.6, .0000, -.0002
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0000,29.25, -.0001, -.0001
Tl1908,190.856 {477},In2306,ppm, -.0009,.0004,50.83, -.0012, -.0006
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0002,217.0, -.0003, .0001
Zn2062,206.200 {463},In2306,ppm, .0020,.0002,10.49, .0021, .0019

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 989.69,3.9913,.40329,986.86,992.51
In2306,230.606 {446},Cts/S, 12122.,524.05,4.3230,11752.,12493.
Y_2243,224.306 {450},Cts/S, 19869.,877.91,4.4186,19248.,20490.
Y_3600,360.073 { 94},Cts/S, 194770.,9578.4,4.9179,187990.,201540.
Y_3710,371.030 { 91},Cts/S, 49448.,331.08,.66956,49214.,49682.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lcs 600-89696/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:37:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
```

Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5259,.0040,.7522, .5287, .5231
Al3082,308.215 {109},In2306,ppm, 11.09,.6379,5.751, 11.54, 10.64
As1890,189.042 {478},Y_2243,ppm, 1.074,.0619,5.761, 1.117, 1.030
B_2496,249.678 {135},Y_3710,ppm, 1.077,.0418,3.876, 1.107, 1.048
Ba4554,455.403 { 74},Y_3710,ppm, 1.105,.0561,5.073, 1.145, 1.066
Be3130,313.042 {108},Y_3710,ppm, .5528,.0277,5.009, .5724, .5332
Ca3158,315.887 {107},In2306,ppm, 11.13,.6054,5.441, 11.56, 10.70
Ca3181,318.128 {106},In2306,ppm, 11.03,.5395,4.890, 11.41, 10.65
Cd2288,228.802 {447},Y_2243,ppm, .5219,.0285,5.456, .5421, .5018
Co2286,228.616 {447},In2306,ppm, 1.030,.0577,5.598, 1.071, .9896
Cr2677,267.716 {126},Y_3600,ppm, 1.016,.0016,.1571, 1.015, 1.018
Cu3247,324.754 {104},Y_3600,ppm, 1.041,.0001,.0104, 1.041, 1.041
Fe2404,240.488 {140},In2306,ppm, 11.08,.6532,5.898, 11.54, 10.61
K_7664,766.490 { 44},Y_3710,ppm, 10.82,.4649,4.297, 11.15, 10.49
K_7698,769.896 { 44},Y_3710,ppm, 11.07,.5935,5.363, 11.48, 10.65
Li6707,670.784 { 50},Y_3710,ppm, .5572,.0259,4.647, .5756, .5389
Mg2790,279.079 {121},Y_3710,ppm, 10.74,.5362,4.993, 11.12, 10.36
Mn2576,257.610 {131},Y_3600,ppm, 1.038,.0033,.3215, 1.041, 1.036
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.112,.0658,5.914, 1.158, 1.065
Mo2020,202.030 {467},Y_2243,ppm, 1.124,.0656,5.834, 1.170, 1.078
Na5895,589.592 { 57},Y_3710,ppm, 11.09,.5229,4.713, 11.46, 10.72
Na8183,818.326 { 41},Y_3710,ppm, 10.92,.7600,6.958, 11.46, 10.39
Ni2316,231.604 {445},In2306,ppm, 1.029,.0568,5.521, 1.069, .9889
P_1782,178.284 {489},In2306,ppm, -.0011,.0009,83.94, -.0004, -.0017
Pb2203,220.353 {453},In2306,ppm, 1.028,.0517,5.025, 1.065, .9918
S_1820,182.034 {485},Y_2243,ppm, -.2597,.0985,37.92, -.3294, -.1901
Sb2068,206.833 {463},Y_2243,ppm, 1.074,.0643,5.992, 1.119, 1.028
Se1960,196.090 {472},Y_2243,ppm, 1.070,.0593,5.539, 1.112, 1.028
Si2516,251.611 {134},Y_3710,ppm, 1.071,.0492,4.594, 1.106, 1.036
Sn1899,189.989 {477},In2306,ppm, 1.060,.0596,5.623, 1.102, 1.018
Sr4215,421.552 { 80},Y_3710,ppm, .5553,.0294,5.300, .5761, .5345
Ti3349,334.904 {101},Y_3600,ppm, 1.049,.0034,.3244, 1.052, 1.047
Tl1908,190.856 {477},In2306,ppm, 1.049,.0592,5.646, 1.091, 1.007
V_2924,292.402 {115},Y_3600,ppm, 1.041,.0015,.1484, 1.043, 1.040
Zn2062,206.200 {463},In2306,ppm, 1.006,.0533,5.300, 1.044, .9684

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 965.57,47.618,4.9316,931.90,999.24
In2306,230.606 {446},Cts/S, 11952.,524.56,4.3891,11581.,12322.
Y_2243,224.306 {450},Cts/S, 19452.,884.45,4.5469,18826.,20077.
Y_3600,360.073 { 94},Cts/S, 190890.,.39183,.00021,190890.,190890.
Y_3710,371.030 { 91},Cts/S, 49339.,2082.5,4.2207,47867.,50812.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89673/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:39:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

```
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0002,214.7, .0003, -.0001
Al3082,308.215 {109},In2306,ppm, -.0093,.0083,88.85, -.0035, -.0151
As1890,189.042 {478},Y_2243,ppm, .0004,.0008,183.6, -.0001, .0010
B_2496,249.678 {135},Y_3710,ppm, .0105,.0010,9.029, .0112, .0099
Ba4554,455.403 { 74},Y_3710,ppm, .0010,.0002,22.24, .0011, .0008
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,11.80, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, .1976,.0038,1.939, .2003, .1949
Ca3181,318.128 {106},In2306,ppm, .1466,.0130,8.888, .1559, .1374
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0003,122.4, .0000, .0005
Co2286,228.616 {447},In2306,ppm, .0007,.0008,120.7, .0001, .0013
Cr2677,267.716 {126},Y_3600,ppm, .0007,.0004,54.63, .0010, .0005
Cu3247,324.754 {104},Y_3600,ppm, .0014,.0005,32.64, .0011, .0017
Fe2404,240.488 {140},In2306,ppm, .0113,.0011,9.874, .0121, .0105
K_7664,766.490 { 44},Y_3710,ppm, -.0109,.0010,9.428, -.0102, -.0116
K_7698,769.896 { 44},Y_3710,ppm, .0309,.1101,356.0, .1088, -.0469
Li6707,670.784 { 50},Y_3710,ppm, -.0003,.0009,315.3, .0004, -.0010
Mg2790,279.079 {121},Y_3710,ppm, .0358,.0074,20.71, .0305, .0410
Mn2576,257.610 {131},Y_3600,ppm, .0003,.0001,22.33, .0003, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0006,.0002,30.59, .0008, .0005
Mo2020,202.030 {467},Y_2243,ppm, .0031,.0027,88.14, .0012, .0050
Na5895,589.592 { 57},Y_3710,ppm, 2.482,.0465,1.873, 2.515, 2.449
Na8183,818.326 { 41},Y_3710,ppm, 2.462,.1426,5.791, 2.563, 2.361
Ni2316,231.604 {445},In2306,ppm, .0009,.0009,95.49, .0003, .0016
P_1782,178.284 {489},In2306,ppm, .0012,.0010,84.23, .0005, .0018
Pb2203,220.353 {453},In2306,ppm, .0000,.0001,642.0, -.0001, .0001
S_1820,182.034 {485},Y_2243,ppm, -10.99,.1777,1.617, -10.86, -11.12
Sb2068,206.833 {463},Y_2243,ppm, .0043,.0014,33.57, .0033, .0053
Se1960,196.090 {472},Y_2243,ppm, .0006,.0003,50.60, .0009, .0004
Si2516,251.611 {134},Y_3710,ppm, .0814,.0046,5.700, .0846, .0781
Sn1899,189.989 {477},In2306,ppm, .0008,.0011,144.6, .0000, .0015
Sr4215,421.552 { 80},Y_3710,ppm, .0003,.0001,28.54, .0003, .0002
Ti3349,334.904 {101},Y_3600,ppm, .0006,.0001,20.24, .0005, .0007
Tl1908,190.856 {477},In2306,ppm, .0056,.0053,94.32, .0019, .0094
V_2924,292.402 {115},Y_3600,ppm, .0000,.0002,775.2, -.0001, .0001
Zn2062,206.200 {463},In2306,ppm, .0082,.0012,15.12, .0073, .0091

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1046.7,27.790,2.6551,1027.0,1066.3
In2306,230.606 {446},Cts/S, 12175.,462.22,3.7966,12501.,11848.
Y_2243,224.306 {450},Cts/S, 19886.,758.31,3.8133,20422.,19350.
Y_3600,360.073 { 94},Cts/S, 196450.,6112.6,3.1115,192130.,200770.
Y_3710,371.030 { 91},Cts/S, 52425.,1353.8,2.5823,51468.,53382.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:42:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2513,.0032,1.262, .2491, .2535
Al3082,308.215 {109},In2306,ppm, 2.449,.0095,.3874, 2.456, 2.443
```

As1890,189.042 {478},Y_2243,ppm, .4857,.0014,.2920, .4867, .4847
B_2496,249.678 {135},Y_3710,ppm, .4885,.0046,.9439, .4917, .4852
Ba4554,455.403 { 74},Y_3710,ppm, .4925,.0071,1.443, .4975, .4875
Be3130,313.042 {108},Y_3710,ppm, .4968,.0068,1.372, .5016, .4920
Ca3158,315.887 {107},In2306,ppm, 12.45,.0824,.6613, 12.51, 12.40
Ca3181,318.128 {106},In2306,ppm, 12.18,.1000,.8204, 12.25, 12.11
Cd2288,228.802 {447},Y_2243,ppm, .4736,.0008,.1619, .4741, .4730
Co2286,228.616 {447},In2306,ppm, .4704,.0005,.0992, .4707, .4701
Cr2677,267.716 {126},Y_3600,ppm, .4905,.0086,1.751, .4845, .4966
Cu3247,324.754 {104},Y_3600,ppm, .4890,.0067,1.379, .4842, .4937
Fe2404,240.488 {140},In2306,ppm, 2.471,.0068,.2769, 2.466, 2.475
K_7664,766.490 { 44},Y_3710,ppm, 12.33,.3324,2.697, 12.56, 12.09
K_7698,769.896 { 44},Y_3710,ppm, 12.48,.3990,3.196, 12.77, 12.20
Li6707,670.784 { 50},Y_3710,ppm, .5041,.0048,.9594, .5075, .5007
Mg2790,279.079 {121},Y_3710,ppm, 4.882,.0844,1.729, 4.942, 4.823
Mn2576,257.610 {131},Y_3600,ppm, .4976,.0083,1.660, .4918, .5034
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5043,.0054,1.065, .5081, .5005
Mo2020,202.030 {467},Y_2243,ppm, .5002,.0004,.0883, .5005, .4999
Na5895,589.592 { 57},Y_3710,ppm, 12.52,.2666,2.130, 12.71, 12.33
Na8183,818.326 { 41},Y_3710,ppm, 12.40,.2137,1.724, 12.55, 12.25
Ni2316,231.604 {445},In2306,ppm, .4715,.0000,.0008, .4715, .4715
P_1782,178.284 {489},In2306,ppm, .4740,.0008,.1712, .4745, .4734
Pb2203,220.353 {453},In2306,ppm, .4699,.0006,.1220, .4703, .4695
S_1820,182.034 {485},Y_2243,ppm, -202.2,.2100,.1038, -202.4, -202.1
Sb2068,206.833 {463},Y_2243,ppm, .4863,.0039,.7979, .4890, .4835
Se1960,196.090 {472},Y_2243,ppm, .4837,.0018,.3767, .4850, .4824
Si2516,251.611 {134},Y_3710,ppm, .9667,.0095,.9844, .9734, .9600
Sn1899,189.989 {477},In2306,ppm, .4890,.0015,.3008, .4900, .4879
Sr4215,421.552 { 80},Y_3710,ppm, .2505,.0026,1.040, .2523, .2487
Ti3349,334.904 {101},Y_3600,ppm, .5001,.0089,1.782, .4938, .5064
Tl1908,190.856 {477},In2306,ppm, .4797,.0005,.1041, .4793, .4800
V_2924,292.402 {115},Y_3600,ppm, .4997,.0063,1.261, .4952, .5042
Zn2062,206.200 {463},In2306,ppm, .4661,.0001,.0258, .4660, .4662

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 993.36,21.342,2.1485,978.27,1008.5
In2306,230.606 {446},Cts/S, 12268.,9.0784,.07400,12274.,12261.
Y_2243,224.306 {450},Cts/S, 20039.,3.6831,.01838,20037.,20042.
Y_3600,360.073 { 94},Cts/S, 187420.,2491.2,1.3292,189180.,185660.
Y_3710,371.030 { 91},Cts/S, 49913.,1522.9,3.0511,48836.,50989.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:44:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0056,.0001,2.078, .0057, .0055
Al3082,308.215 {109},In2306,ppm, .0921,.0026,2.773, .0903, .0940
As1890,189.042 {478},Y_2243,ppm, .0103,.0006,5.763, .0108, .0099
B_2496,249.678 {135},Y_3710,ppm, .0112,.0010,8.627, .0105, .0119
Ba4554,455.403 { 74},Y_3710,ppm, .0106,.0003,2.409, .0108, .0104

Be3130,313.042 {108},Y_3710,ppm, .0052,.0001,2.232, .0053, .0051
Ca3158,315.887 {107},In2306,ppm, .1143,.0056,4.916, .1182, .1103
Ca3181,318.128 {106},In2306,ppm, .0899,.0164,18.27, .0782, .1015
Cd2288,228.802 {447},Y_2243,ppm, .0053,.0003,6.281, .0050, .0055
Co2286,228.616 {447},In2306,ppm, .0100,.0005,4.530, .0096, .0103
Cr2677,267.716 {126},Y_3600,ppm, .0106,.0004,3.771, .0109, .0103
Cu3247,324.754 {104},Y_3600,ppm, .0097,.0001,.7053, .0096, .0097
Fe2404,240.488 {140},In2306,ppm, .1039,.0004,.3676, .1036, .1041
K_7664,766.490 { 44},Y_3710,ppm, .6016,.0381,6.339, .6286, .5746
K_7698,769.896 { 44},Y_3710,ppm, .6653,.0684,10.28, .7136, .6169
Li6707,670.784 { 50},Y_3710,ppm, .0107,.0005,4.513, .0104, .0111
Mg2790,279.079 {121},Y_3710,ppm, .1171,.0049,4.178, .1136, .1205
Mn2576,257.610 {131},Y_3600,ppm, .0102,.0004,4.270, .0105, .0099
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0112,.0004,3.699, .0115, .0109
Mo2020,202.030 {467},Y_2243,ppm, .0117,.0013,11.38, .0108, .0126
Na5895,589.592 { 57},Y_3710,ppm, .6337,.0061,.9622, .6381, .6294
Na8183,818.326 { 41},Y_3710,ppm, .7072,.1707,24.14, .8279, .5865
Ni2316,231.604 {445},In2306,ppm, .0103,.0004,3.588, .0100, .0105
P_1782,178.284 {489},In2306,ppm, .0088,.0008,9.027, .0083, .0094
Pb2203,220.353 {453},In2306,ppm, .0103,.0004,3.921, .0105, .0100
S_1820,182.034 {485},Y_2243,ppm, -.0391,.0315,80.74, -.0613, -.0168
Sb2068,206.833 {463},Y_2243,ppm, .0128,.0031,23.81, .0107, .0150
Se1960,196.090 {472},Y_2243,ppm, .0102,.0001,1.149, .0101, .0103
Si2516,251.611 {134},Y_3710,ppm, .0188,.0020,10.90, .0173, .0202
Sn1899,189.989 {477},In2306,ppm, .0111,.0002,1.917, .0113, .0110
Sr4215,421.552 { 80},Y_3710,ppm, .0052,.0001,2.370, .0053, .0051
Ti3349,334.904 {101},Y_3600,ppm, .0104,.0002,2.160, .0106, .0103
Tl1908,190.856 {477},In2306,ppm, .0101,.0006,5.880, .0105, .0096
V_2924,292.402 {115},Y_3600,ppm, .0100,.0000,.0083, .0100, .0100
Zn2062,206.200 {463},In2306,ppm, .0106,.0005,4.727, .0103, .0110

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 988.00,6.2706,.63467,983.56,992.43
In2306,230.606 {446},Cts/S, 11947.,312.64,2.6168,12168.,11726.
Y_2243,224.306 {450},Cts/S, 19664.,488.71,2.4853,20010.,19319.
Y_3600,360.073 { 94},Cts/S, 190480.,5809.0,3.0497,186370.,194590.
Y_3710,371.030 { 91},Cts/S, 49058.,853.88,1.7405,48454.,49662.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:46:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0003,.0001,28.55, .0003, .0004
Al3082,308.215 {109},In2306,ppm, -.0039,.0059,151.9, .0003, -.0081
As1890,189.042 {478},Y_2243,ppm, -.0004,.0009,202.8, -.0010, .0002
B_2496,249.678 {135},Y_3710,ppm, .0015,.0011,74.73, .0023, .0007
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0000,86.17, .0000, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,2109., .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0088,.0016,18.59, .0099, .0076
Ca3181,318.128 {106},In2306,ppm, -.0036,.0109,303.3, -.0113, .0041

```
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,.9922, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0001,.0001,189.9, .0000, .0002
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0002,139.8, .0003, .0000
Cu3247,324.754 {104},Y_3600,ppm, .0001,.0001,126.5, .0001, .0000
Fe2404,240.488 {140},In2306,ppm, .0041,.0013,31.20, .0050, .0032
K_7664,766.490 { 44},Y_3710,ppm, .0225,.0188,83.37, .0358, .0092
K_7698,769.896 { 44},Y_3710,ppm, -.0393,.0064,16.41, -.0438, -.0347
Li6707,670.784 { 50},Y_3710,ppm, -.0005,.0002,42.00, -.0007, -.0004
Mg2790,279.079 {121},Y_3710,ppm, -.0029,.0048,164.9, -.0063, .0005
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0000,10.22, -.0001, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0001,10.71, .0005, .0004
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0003,92.18, .0001, .0005
Na5895,589.592 { 57},Y_3710,ppm, .0132,.0029,22.18, .0153, .0112
Na8183,818.326 { 41},Y_3710,ppm, .2146,.0513,23.89, .2508, .1783
Ni2316,231.604 {445},In2306,ppm, .0000,.0000,173.1, .0000, .0000
P_1782,178.284 {489},In2306,ppm, -.0002,.0016,692.1, -.0014, .0009
Pb2203,220.353 {453},In2306,ppm, -.0001,.0004,361.2, -.0004, .0002
S_1820,182.034 {485},Y_2243,ppm, -.3483,.1764,50.65, -.2236, -.4731
Sb2068,206.833 {463},Y_2243,ppm, -.0010,.0010,95.80, -.0017, -.0003
Se1960,196.090 {472},Y_2243,ppm, .0005,.0003,60.17, .0007, .0003
Si2516,251.611 {134},Y_3710,ppm, .0033,.0014,42.08, .0043, .0023
Sn1899,189.989 {477},In2306,ppm, -.0005,.0005,98.55, -.0008, -.0001
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,102.9, -.0002, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0000,106.8, .0000, .0000
Tl1908,190.856 {477},In2306,ppm, .0000,.0002,804.9, -.0001, .0001
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0001,107.3, -.0002, .0000
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,35.11, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1002.3,9.1249,.91042,995.82,1008.7
In2306,230.606 {446},Cts/S, 12097.,93.763,.77510,12163.,12031.
Y_2243,224.306 {450},Cts/S, 19893.,159.17,.80016,20005.,19780.
Y_3600,360.073 { 94},Cts/S, 197270.,2203.6,1.1171,198830.,195710.
Y_3710,371.030 { 91},Cts/S, 49287.,571.66,1.1598,48883.,49692.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61333-a-5-e
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:49:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0009,.0005,54.26, .0005, .0012
Al3082,308.215 {109},In2306,ppm, -.0104,.0087,83.45, -.0165, -.0043
As1890,189.042 {478},Y_2243,ppm, .0034,.0007,21.39, .0040, .0029
B_2496,249.678 {135},Y_3710,ppm, .0334,.0038,11.34, .0307, .0361
Ba4554,455.403 { 74},Y_3710,ppm, .0915,.0074,8.120, .0863, .0968
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,152.5, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 43.69,3.745,8.572, 41.04, 46.33
Ca3181,318.128 {106},In2306,ppm, 43.24,3.799,8.785, 40.55, 45.93
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,62.35, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0014,.0001,5.179, .0014, .0015
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0003,27.77, .0013, .0008
```

```
Cu3247,324.754 {104},Y_3600,ppm, .0005,.0003,66.18, .0003, .0007
Fe2404,240.488 {140},In2306,ppm, .0167,.0019,11.38, .0154, .0181
K_7664,766.490 { 44},Y_3710,ppm, 1.113,.0637,5.721, 1.068, 1.158
K_7698,769.896 { 44},Y_3710,ppm, .9851,.0083,.8408, .9792, .9909
Li6707,670.784 { 50},Y_3710,ppm, .0161,.0018,11.18, .0148, .0174
Mg2790,279.079 {121},Y_3710,ppm, 6.775,.6114,9.024, 6.343, 7.207
Mn2576,257.610 {131},Y_3600,ppm, .2401,.0062,2.601, .2445, .2357
Mn2576-2,257.610 {131}2,Y_3710,ppm, .2233,.0152,6.799, .2126, .2341
Mo2020,202.030 {467},Y_2243,ppm, .0114,.0005,3.965, .0111, .0117
Na5895,589.592 { 57},Y_3710,ppm, 4.831,.3446,7.132, 4.588, 5.075
Na8183,818.326 { 41},Y_3710,ppm, 4.828,.1841,3.814, 4.697, 4.958
Ni2316,231.604 {445},In2306,ppm, .0080,.0002,2.689, .0079, .0082
P_1782,178.284 {489},In2306,ppm, .0862,.0029,3.364, .0842, .0883
Pb2203,220.353 {453},In2306,ppm, .0002,.0008,505.4, .0007, -.0004
S_1820,182.034 {485},Y_2243,ppm, -4142.,145.1,3.503, -4040., -4245.
Sb2068,206.833 {463},Y_2243,ppm, .0003,.0000,1.075, .0003, .0003
Se1960,196.090 {472},Y_2243,ppm, .0019,.0019,103.4, .0005, .0032
Si2516,251.611 {134},Y_3710,ppm, .7945,.0588,7.407, .7529, .8361
Sn1899,189.989 {477},In2306,ppm, .0003,.0014,531.0, -.0007, .0012
Sr4215,421.552 { 80},Y_3710,ppm, .1624,.0134,8.275, .1529, .1719
Ti3349,334.904 {101},Y_3600,ppm, .0007,.0002,27.04, .0005, .0008
Tl1908,190.856 {477},In2306,ppm, .0008,.0008,100.9, .0002, .0013
V_2924,292.402 {115},Y_3600,ppm, .0000,.0001,398.1, -.0001, .0000
Zn2062,206.200 {463},In2306,ppm, .0064,.0002,2.388, .0063, .0065

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1037.2,57.291,5.5238,1077.7,996.66
In2306,230.606 {446},Cts/S, 11958.,371.11,3.1035,12220.,11695.
Y_2243,224.306 {450},Cts/S, 19393.,592.14,3.0534,19811.,18974.
Y_3600,360.073 { 94},Cts/S, 181880.,3398.7,1.8687,179480.,184280.
Y_3710,371.030 { 91},Cts/S, 51880.,2854.6,5.5023,53899.,49862.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61333-a-5-f du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:51:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0012,.0004,34.35, .0009, .0015
Al3082,308.215 {109},In2306,ppm, .0084,.0113,134.1, .0164, .0004
As1890,189.042 {478},Y_2243,ppm, .0032,.0004,12.91, .0029, .0034
B_2496,249.678 {135},Y_3710,ppm, .0382,.0010,2.669, .0389, .0375
Ba4554,455.403 { 74},Y_3710,ppm, .0970,.0011,1.185, .0978, .0962
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,10.17, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 46.52,.5344,1.149, 46.89, 46.14
Ca3181,318.128 {106},In2306,ppm, 45.83,.6694,1.461, 46.30, 45.35
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,30.69, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0015,.0000,2.956, .0015, .0015
Cr2677,267.716 {126},Y_3600,ppm, .0012,.0000,3.565, .0011, .0012
Cu3247,324.754 {104},Y_3600,ppm, .0002,.0001,32.18, .0002, .0001
Fe2404,240.488 {140},In2306,ppm, .0133,.0009,6.429, .0139, .0127
K_7664,766.490 { 44},Y_3710,ppm, 1.199,.0069,.5754, 1.204, 1.194
```

```
K_7698,769.896 { 44},Y_3710,ppm, 1.203,.0330,2.745, 1.226, 1.179
Li6707,670.784 { 50},Y_3710,ppm, .0156,.0001,.3418, .0156, .0156
Mg2790,279.079 {121},Y_3710,ppm, 7.202,.0730,1.014, 7.254, 7.150
Mn2576,257.610 {131},Y_3600,ppm, .2331,.0010,.4490, .2338, .2323
Mn2576-2,257.610 {131}2,Y_3710,ppm, .2367,.0026,1.100, .2386, .2349
Mo2020,202.030 {467},Y_2243,ppm, .0114,.0002,1.608, .0112, .0115
Na5895,589.592 { 57},Y_3710,ppm, 5.106,.0730,1.430, 5.158, 5.055
Na8183,818.326 { 41},Y_3710,ppm, 5.180,.1128,2.178, 5.101, 5.260
Ni2316,231.604 {445},In2306,ppm, .0079,.0003,4.412, .0077, .0082
P_1782,178.284 {489},In2306,ppm, .0860,.0010,1.216, .0852, .0867
Pb2203,220.353 {453},In2306,ppm, -.0001,.0005,734.2, -.0004, .0003
S_1820,182.034 {485},Y_2243,ppm, -4138.,49.74,1.202, -4103., -4173.
Sb2068,206.833 {463},Y_2243,ppm, .0014,.0003,23.34, .0016, .0012
Se1960,196.090 {472},Y_2243,ppm, .0014,.0016,108.5, .0003, .0026
Si2516,251.611 {134},Y_3710,ppm, .8447,.0127,1.502, .8536, .8357
Sn1899,189.989 {477},In2306,ppm, -.0001,.0000,15.90, -.0001, -.0001
Sr4215,421.552 { 80},Y_3710,ppm, .1713,.0016,.9193, .1725, .1702
Ti3349,334.904 {101},Y_3600,ppm, .0008,.0001,12.87, .0007, .0009
Tl1908,190.856 {477},In2306,ppm, -.0008,.0009,110.0, -.0002, -.0015
V_2924,292.402 {115},Y_3600,ppm, .0002,.0000,2.867, .0002, .0002
Zn2062,206.200 {463},In2306,ppm, .0028,.0000,.3186, .0028, .0028

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 987.51,30.188,3.0570,966.16,1008.9
In2306,230.606 {446},Cts/S, 12096.,107.38,.88776,12172.,12020.
Y_2243,224.306 {450},Cts/S, 19557.,187.67,.95958,19690.,19424.
Y_3600,360.073 { 94},Cts/S, 186430.,920.33,.49366,185780.,187080.
Y_3710,371.030 { 91},Cts/S, 49520.,1346.3,2.7186,48568.,50472.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61333-a-5-g ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:53:55
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5099,.0082,1.616, .5041, .5157
Al3082,308.215 {109},In2306,ppm, 11.25,.4456,3.959, 10.94, 11.57
As1890,189.042 {478},Y_2243,ppm, 1.032,.0041,.3982, 1.035, 1.029
B_2496,249.678 {135},Y_3710,ppm, 1.143,.0363,3.179, 1.117, 1.168
Ba4554,455.403 { 74},Y_3710,ppm, 1.219,.0387,3.177, 1.191, 1.246
Be3130,313.042 {108},Y_3710,ppm, .5592,.0185,3.314, .5461, .5723
Ca3158,315.887 {107},In2306,ppm, 62.41,1.960,3.141, 61.03, 63.80
Ca3181,318.128 {106},In2306,ppm, 61.32,1.964,3.203, 59.93, 62.71
Cd2288,228.802 {447},Y_2243,ppm, .4976,.0040,.8122, .5005, .4948
Co2286,228.616 {447},In2306,ppm, .9736,.0065,.6639, .9782, .9691
Cr2677,267.716 {126},Y_3600,ppm, .9681,.0262,2.709, .9496, .9867
Cu3247,324.754 {104},Y_3600,ppm, 1.000,.0227,2.269, .9842, 1.016
Fe2404,240.488 {140},In2306,ppm, 11.17,.3724,3.335, 10.90, 11.43
K_7664,766.490 { 44},Y_3710,ppm, 12.26,.2758,2.249, 12.07, 12.46
K_7698,769.896 { 44},Y_3710,ppm, 12.48,.3389,2.717, 12.24, 12.71
Li6707,670.784 { 50},Y_3710,ppm, .5810,.0159,2.730, .5698, .5922
Mg2790,279.079 {121},Y_3710,ppm, 18.63,.7078,3.798, 18.13, 19.13
```

Mn2576,257.610 {131},Y_3600,ppm, 1.220,.0307,2.517, 1.198, 1.241
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.374,.0422,3.071, 1.344, 1.404
Mo2020,202.030 {467},Y_2243,ppm, 1.074,.0100,.9313, 1.081, 1.067
Na5895,589.592 { 57},Y_3710,ppm, 16.70,.4629,2.771, 16.38, 17.03
Na8183,818.326 { 41},Y_3710,ppm, 16.49,.3026,1.835, 16.28, 16.71
Ni2316,231.604 {445},In2306,ppm, .9787,.0071,.7272, .9838, .9737
P_1782,178.284 {489},In2306,ppm, .0856,.0003,.3678, .0858, .0854
Pb2203,220.353 {453},In2306,ppm, .9770,.0082,.8343, .9828, .9712
S_1820,182.034 {485},Y_2243,ppm, -4158.,38.21,.9191, -4185., -4131.
Sb2068,206.833 {463},Y_2243,ppm, 1.030,.0103,.9988, 1.037, 1.023
Se1960,196.090 {472},Y_2243,ppm, 1.020,.0107,1.046, 1.027, 1.012
Si2516,251.611 {134},Y_3710,ppm, 2.059,.0758,3.682, 2.005, 2.112
Sn1899,189.989 {477},In2306,ppm, 1.009,.0100,.9947, 1.016, 1.002
Sr4215,421.552 { 80},Y_3710,ppm, .7504,.0236,3.146, .7337, .7671
Ti3349,334.904 {101},Y_3600,ppm, 1.011,.0254,2.517, .9925, 1.029
Tl1908,190.856 {477},In2306,ppm, 1.002,.0131,1.307, 1.011, .9925
V_2924,292.402 {115},Y_3600,ppm, .9967,.0242,2.423, .9796, 1.014
Zn2062,206.200 {463},In2306,ppm, .9484,.0069,.7252, .9532, .9435

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 906.81,13.630,1.5031,916.45,897.17
In2306,230.606 {446},Cts/S, 11838.,84.261,.71176,11779.,11898.
Y_2243,224.306 {450},Cts/S, 19368.,160.42,.82826,19255.,19481.
Y_3600,360.073 { 94},Cts/S, 186330.,4077.1,2.1881,189210.,183450.
Y_3710,371.030 { 91},Cts/S, 46406.,733.31,1.5802,46924.,45887.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=mb 600-89602/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:56:05
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0008,157.1, -.0011, .0001
Al3082,308.215 {109},In2306,ppm, -.0067,.0071,106.4, -.0117, -.0017
As1890,189.042 {478},Y_2243,ppm, .0010,.0002,21.57, .0011, .0008
B_2496,249.678 {135},Y_3710,ppm, -.0019,.0001,2.651, -.0020, -.0019
Ba4554,455.403 { 74},Y_3710,ppm, .0009,.0000,3.750, .0009, .0008
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,6.012, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0087,.0090,104.1, .0150, .0023
Ca3181,318.128 {106},In2306,ppm, -.0106,.0096,91.05, -.0038, -.0174
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0004,157.3, .0000, .0005
Co2286,228.616 {447},In2306,ppm, .0005,.0007,126.6, .0001, .0010
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0001,29.16, .0003, .0002
Cu3247,324.754 {104},Y_3600,ppm, .0002,.0002,102.0, .0001, .0004
Fe2404,240.488 {140},In2306,ppm, .0038,.0029,76.78, .0018, .0059
K_7664,766.490 { 44},Y_3710,ppm, -.0103,.0060,58.90, -.0145, -.0060
K_7698,769.896 { 44},Y_3710,ppm, -.0600,.0346,57.69, -.0845, -.0355
Li6707,670.784 { 50},Y_3710,ppm, -.0005,.0005,90.42, -.0002, -.0009
Mg2790,279.079 {121},Y_3710,ppm, .0046,.0010,20.99, .0039, .0053
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0001,62.44, .0002, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0007,.0002,29.85, .0006, .0009
Mo2020,202.030 {467},Y_2243,ppm, .0029,.0018,62.71, .0016, .0042

Na5895,589.592 { 57},Y_3710,ppm, .0019,.0027,142.9, .0039, .0000
Na8183,818.326 { 41},Y_3710,ppm, .1445,.1015,70.25, .2163, .0727
Ni2316,231.604 {445},In2306,ppm, .0006,.0007,103.8, .0002, .0011
P_1782,178.284 {489},In2306,ppm, -.0015,.0008,54.39, -.0009, -.0020
Pb2203,220.353 {453},In2306,ppm, .0002,.0010,605.4, -.0005, .0009
S_1820,182.034 {485},Y_2243,ppm, -2.230,1.237,55.49, -1.355, -3.105
Sb2068,206.833 {463},Y_2243,ppm, .0032,.0027,81.88, .0014, .0051
Se1960,196.090 {472},Y_2243,ppm, .0012,.0005,43.44, .0015, .0008
Si2516,251.611 {134},Y_3710,ppm, .0026,.0002,6.237, .0027, .0025
Sn1899,189.989 {477},In2306,ppm, .0014,.0006,42.09, .0010, .0018
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,137.1, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0001,32.88, .0004, .0003
Tl1908,190.856 {477},In2306,ppm, .0045,.0034,76.36, .0021, .0069
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0003,225.4, .0001, -.0003
Zn2062,206.200 {463},In2306,ppm, .0015,.0007,47.77, .0010, .0020

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1031.9,3.5268,.34177,1034.4,1029.4
In2306,230.606 {446},Cts/S, 12034.,16.375,.13607,12046.,12023.
Y_2243,224.306 {450},Cts/S, 19749.,73.266,.37099,19801.,19697.
Y_3600,360.073 { 94},Cts/S, 192660.,113.55,.05894,192740.,192580.
Y_3710,371.030 { 91},Cts/S, 51619.,203.95,.39512,51763.,51475.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61333-a-5-h msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 10:58:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5391,.0001,.0105, .5391, .5391
Al3082,308.215 {109},In2306,ppm, 10.25,.4338,4.233, 9.942, 10.56
As1890,189.042 {478},Y_2243,ppm, 1.029,.0330,3.204, 1.052, 1.006
B_2496,249.678 {135},Y_3710,ppm, 1.045,.0338,3.236, 1.021, 1.069
Ba4554,455.403 { 74},Y_3710,ppm, 1.121,.0407,3.632, 1.092, 1.150
Be3130,313.042 {108},Y_3710,ppm, .5123,.0186,3.628, .4992, .5254
Ca3158,315.887 {107},In2306,ppm, 56.18,2.059,3.665, 54.72, 57.64
Ca3181,318.128 {106},In2306,ppm, 55.52,2.067,3.723, 54.05, 56.98
Cd2288,228.802 {447},Y_2243,ppm, .4959,.0178,3.586, .5085, .4833
Co2286,228.616 {447},In2306,ppm, .9712,.0372,3.834, .9975, .9448
Cr2677,267.716 {126},Y_3600,ppm, 1.024,.0003,.0300, 1.025, 1.024
Cu3247,324.754 {104},Y_3600,ppm, 1.059,.0072,.6839, 1.064, 1.054
Fe2404,240.488 {140},In2306,ppm, 10.15,.3913,3.856, 9.871, 10.42
K_7664,766.490 { 44},Y_3710,ppm, 11.43,.2910,2.545, 11.23, 11.64
K_7698,769.896 { 44},Y_3710,ppm, 11.59,.3273,2.824, 11.36, 11.82
Li6707,670.784 { 50},Y_3710,ppm, .5384,.0183,3.389, .5255, .5513
Mg2790,279.079 {121},Y_3710,ppm, 16.92,.5283,3.123, 16.55, 17.29
Mn2576,257.610 {131},Y_3600,ppm, 1.285,.0002,.0133, 1.285, 1.285
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.251,.0412,3.290, 1.222, 1.280
Mo2020,202.030 {467},Y_2243,ppm, 1.062,.0352,3.318, 1.087, 1.037
Na5895,589.592 { 57},Y_3710,ppm, 15.44,.4814,3.117, 15.10, 15.78
Na8183,818.326 { 41},Y_3710,ppm, 15.11,.4818,3.188, 14.77, 15.45
Ni2316,231.604 {445},In2306,ppm, .9746,.0371,3.807, 1.001, .9483

```
P_1782,178.284 {489},In2306,ppm, .0862,.0045,5.190, .0894, .0831
Pb2203,220.353 {453},In2306,ppm, .9747,.0377,3.871, 1.001, .9481
S_1820,182.034 {485},Y_2243,ppm, -4107.,145.1,3.534, -4209., -4004.
Sb2068,206.833 {463},Y_2243,ppm, 1.015,.0379,3.736, 1.042, .9879
Se1960,196.090 {472},Y_2243,ppm, 1.019,.0391,3.842, 1.046, .9909
Si2516,251.611 {134},Y_3710,ppm, 1.852,.0765,4.132, 1.798, 1.906
Sn1899,189.989 {477},In2306,ppm, .9976,.0370,3.705, 1.024, .9715
Sr4215,421.552 { 80},Y_3710,ppm, .6883,.0243,3.537, .6711, .7056
Ti3349,334.904 {101},Y_3600,ppm, 1.059,.0015,.1461, 1.060, 1.058
Tl1908,190.856 {477},In2306,ppm, 1.000,.0407,4.065, 1.029, .9716
V_2924,292.402 {115},Y_3600,ppm, 1.056,.0049,.4670, 1.059, 1.052
Zn2062,206.200 {463},In2306,ppm, .9488,.0361,3.804, .9743, .9233

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 987.30,7.8312,.79319,992.84,981.77
In2306,230.606 {446},Cts/S, 12018.,341.76,2.8437,11776.,12260.
Y_2243,224.306 {450},Cts/S, 19696.,540.02,2.7418,19314.,20077.
Y_3600,360.073 { 94},Cts/S, 180870.,7.2336,.00400,180860.,180870.
Y_3710,371.030 { 91},Cts/S, 50380.,272.45,.54080,50572.,50187.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89674/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:00:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0019,2165., -.0012, .0014
Al3082,308.215 {109},In2306,ppm, .0068,.0088,129.3, .0130, .0006
As1890,189.042 {478},Y_2243,ppm, .0013,.0006,43.86, .0009, .0017
B_2496,249.678 {135},Y_3710,ppm, .0053,.0014,25.73, .0063, .0043
Ba4554,455.403 { 74},Y_3710,ppm, .0008,.0001,14.66, .0007, .0009
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,10.46, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .8928,.0172,1.927, .9049, .8806
Ca3181,318.128 {106},In2306,ppm, .8622,.0378,4.385, .8890, .8355
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0006,131.8, .0000, .0009
Co2286,228.616 {447},In2306,ppm, .0010,.0013,124.0, .0001, .0020
Cr2677,267.716 {126},Y_3600,ppm, .0005,.0003,64.24, .0007, .0002
Cu3247,324.754 {104},Y_3600,ppm, .0019,.0001,6.289, .0018, .0019
Fe2404,240.488 {140},In2306,ppm, .0179,.0004,2.078, .0177, .0182
K_7664,766.490 { 44},Y_3710,ppm, .0074,.0004,4.995, .0076, .0071
K_7698,769.896 { 44},Y_3710,ppm, .0037,.0236,637.7, -.0130, .0204
Li6707,670.784 { 50},Y_3710,ppm, -.0002,.0003,216.2, -.0004, .0001
Mg2790,279.079 {121},Y_3710,ppm, .0179,.0141,78.70, .0279, .0079
Mn2576,257.610 {131},Y_3600,ppm, .0003,.0000,2.746, .0003, .0003
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0006,.0007,134.2, .0000, .0011
Mo2020,202.030 {467},Y_2243,ppm, .0041,.0022,54.06, .0025, .0057
Na5895,589.592 { 57},Y_3710,ppm, 143.7,1.845,1.284, 142.4, 145.0
Na8183,818.326 { 41},Y_3710,ppm, 150.7,2.779,1.844, 152.6, 148.7
Ni2316,231.604 {445},In2306,ppm, .0010,.0015,140.5, .0000, .0021
P_1782,178.284 {489},In2306,ppm, .1753,.0107,6.113, .1677, .1829
Pb2203,220.353 {453},In2306,ppm, .0010,.0012,121.1, .0001, .0019
S_1820,182.034 {485},Y_2243,ppm, -2.974,2.056,69.14, -1.520, -4.428
```

```
Sb2068,206.833 {463},Y_2243,ppm, .0055,.0045,80.89, .0024, .0087
Se1960,196.090 {472},Y_2243,ppm, .0025,.0020,80.11, .0011, .0039
Si2516,251.611 {134},Y_3710,ppm, .0175,.0012,7.099, .0183, .0166
Sn1899,189.989 {477},In2306,ppm, .0026,.0027,102.8, .0007, .0045
Sr4215,421.552 { 80},Y_3710,ppm, .0005,.0001,20.77, .0006, .0004
Ti3349,334.904 {101},Y_3600,ppm, .0005,.0000,7.093, .0005, .0006
Tl1908,190.856 {477},In2306,ppm, .0078,.0084,108.0, .0018, .0137
V_2924,292.402 {115},Y_3600,ppm, .0000,.0000,434.0, .0000, .0000
Zn2062,206.200 {463},In2306,ppm, .0050,.0015,29.26, .0040, .0060

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 986.46,25.438,2.5787,968.47,1004.4
In2306,230.606 {446},Cts/S, 11694.,512.60,4.3834,12057.,11332.
Y_2243,224.306 {450},Cts/S, 19131.,863.91,4.5158,19742.,18520.
Y_3600,360.073 { 94},Cts/S, 184290.,1792.8,.97286,185550.,183020.
Y_3710,371.030 { 91},Cts/S, 50010.,899.41,1.7985,49374.,50646.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61892-a-1-f
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:03:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0012,653.9, .0010, -.0007
Al3082,308.215 {109},In2306,ppm, .0891,.0134,15.08, .0796, .0985
As1890,189.042 {478},Y_2243,ppm, .0108,.0003,2.334, .0110, .0106
B_2496,249.678 {135},Y_3710,ppm, .1723,.0052,3.047, .1686, .1760
Ba4554,455.403 { 74},Y_3710,ppm, 1.407,.0180,1.276, 1.394, 1.420
Be3130,313.042 {108},Y_3710,ppm, .0003,.0000,4.591, .0003, .0003
Ca3158,315.887 {107},In2306,ppm, 375.7,4.237,1.128, 372.7, 378.7
Ca3181,318.128 {106},In2306,ppm, 371.6,4.713,1.268, 368.3, 375.0
Cd2288,228.802 {447},Y_2243,ppm, .0004,.0001,16.20, .0004, .0005
Co2286,228.616 {447},In2306,ppm, .0457,.0004,.9359, .0454, .0460
Cr2677,267.716 {126},Y_3600,ppm, .0017,.0003,17.01, .0019, .0015
Cu3247,324.754 {104},Y_3600,ppm, .0123,.0011,8.951, .0131, .0115
Fe2404,240.488 {140},In2306,ppm, .0620,.0031,4.942, .0642, .0599
K_7664,766.490 { 44},Y_3710,ppm, 2.062,.0385,1.865, 2.035, 2.090
K_7698,769.896 { 44},Y_3710,ppm, 2.140,.0326,1.523, 2.117, 2.163
Li6707,670.784 { 50},Y_3710,ppm, .0143,.0010,7.160, .0136, .0150
Mg2790,279.079 {121},Y_3710,ppm, 21.62,.3250,1.503, 21.39, 21.85
Mn2576,257.610 {131},Y_3600,ppm, 2.110,.1083,5.133, 2.187, 2.034
Mn2576-2,257.610 {131}2,Y_3710,ppm, 2.201,.0211,.9569, 2.186, 2.216
Mo2020,202.030 {467},Y_2243,ppm, .0025,.0000,1.839, .0025, .0024
Na5895,589.592 { 57},Y_3710,ppm, 1211.,45.12,3.726, 1179., 1243.
Na8183,818.326 { 41},Y_3710,ppm, 1290.,14.25,1.104, 1280., 1300.
Ni2316,231.604 {445},In2306,ppm, .0246,.0000,.1270, .0247, .0246
P_1782,178.284 {489},In2306,ppm, .4292,.0046,1.062, .4259, .4324
Pb2203,220.353 {453},In2306,ppm, .0099,.0002,1.878, .0100, .0098
S_1820,182.034 {485},Y_2243,ppm, -210.8,.2804,.1330, -210.6, -211.0
Sb2068,206.833 {463},Y_2243,ppm, -.0022,.0023,104.4, -.0006, -.0039
Se1960,196.090 {472},Y_2243,ppm, .0074,.0010,13.64, .0067, .0081
Si2516,251.611 {134},Y_3710,ppm, 4.414,.0593,1.344, 4.372, 4.456
```

```
Sn1899,189.989 {477},In2306,ppm, .0034,.0004,10.77, .0032, .0037
Sr4215,421.552 { 80},Y_3710,ppm, .8347,.0111,1.333, .8268, .8425
Ti3349,334.904 {101},Y_3600,ppm, .0040,.0001,1.311, .0040, .0039
Tl1908,190.856 {477},In2306,ppm, -.0047,.0005,11.16, -.0050, -.0043
V_2924,292.402 {115},Y_3600,ppm, .0037,.0006,17.09, .0033, .0042
Zn2062,206.200 {463},In2306,ppm, .1416,.0020,1.422, .1402, .1431

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 897.25,8.9885,1.0018,903.61,890.89
In2306,230.606 {446},Cts/S, 10199.,79.999,.78440,10255.,10142.
Y_2243,224.306 {450},Cts/S, 17736.,100.68,.56769,17807.,17665.
Y_3600,360.073 { 94},Cts/S, 161540.,6275.7,3.8849,157100.,165980.
Y_3710,371.030 { 91},Cts/S, 47244.,430.34,.91088,47549.,46940.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61892-a-3-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:05:37
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0001,31.38, .0003, .0005
Al3082,308.215 {109},In2306,ppm, .0571,.0018,3.210, .0558, .0584
As1890,189.042 {478},Y_2243,ppm, .0115,.0012,10.34, .0107, .0123
B_2496,249.678 {135},Y_3710,ppm, .0882,.0048,5.487, .0848, .0916
Ba4554,455.403 { 74},Y_3710,ppm, 1.322,.0804,6.079, 1.265, 1.379
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,54.47, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 717.8,52.04,7.249, 681.0, 754.6
Ca3181,318.128 {106},In2306,ppm, 757.3,46.17,6.097, 724.7, 790.0
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,.8940, -.0001, -.0001
Co2286,228.616 {447},In2306,ppm, .0120,.0000,.0621, .0120, .0120
Cr2677,267.716 {126},Y_3600,ppm, .0021,.0002,10.60, .0019, .0022
Cu3247,324.754 {104},Y_3600,ppm, .0001,.0005,330.3, .0005, -.0002
Fe2404,240.488 {140},In2306,ppm, .0546,.0025,4.501, .0529, .0564
K_7664,766.490 { 44},Y_3710,ppm, 2.410,.1604,6.656, 2.297, 2.523
K_7698,769.896 { 44},Y_3710,ppm, 2.430,.2054,8.452, 2.284, 2.575
Li6707,670.784 { 50},Y_3710,ppm, .0293,.0022,7.377, .0278, .0309
Mg2790,279.079 {121},Y_3710,ppm, 7.495,.4211,5.618, 7.197, 7.793
Mn2576,257.610 {131},Y_3600,ppm, 1.750,.0052,.2984, 1.747, 1.754
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.811,.1195,6.598, 1.726, 1.895
Mo2020,202.030 {467},Y_2243,ppm, -.0012,.0000,2.181, -.0012, -.0012
Na5895,589.592 { 57},Y_3710,ppm, 1374.,78.28,5.699, 1318., 1429.
Na8183,818.326 { 41},Y_3710,ppm, 1474.,92.81,6.294, 1409., 1540.
Ni2316,231.604 {445},In2306,ppm, .0213,.0002,.8812, .0215, .0212
P_1782,178.284 {489},In2306,ppm, .0444,.0012,2.601, .0436, .0452
Pb2203,220.353 {453},In2306,ppm, .0018,.0004,19.82, .0016, .0021
S_1820,182.034 {485},Y_2243,ppm, -261.3,.0736,.0282, -261.3, -261.4
Sb2068,206.833 {463},Y_2243,ppm, -.0041,.0003,6.135, -.0043, -.0040
Se1960,196.090 {472},Y_2243,ppm, .0079,.0005,6.660, .0075, .0082
Si2516,251.611 {134},Y_3710,ppm, 3.245,.2077,6.401, 3.098, 3.392
Sn1899,189.989 {477},In2306,ppm, .0040,.0000,1.199, .0040, .0039
Sr4215,421.552 { 80},Y_3710,ppm, 2.109,.1378,6.533, 2.011, 2.206
Ti3349,334.904 {101},Y_3600,ppm, .0047,.0001,1.502, .0046, .0047
```

Tl1908,190.856 {477},In2306,ppm, -.0037,.0017,45.49, -.0025, -.0049
V_2924,292.402 {115},Y_3600,ppm, .0036,.0002,4.561, .0037, .0035
Zn2062,206.200 {463},In2306,ppm, .0219,.0003,1.175, .0217, .0221

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 895.40,45.346,5.0643,927.47,863.34
In2306,230.606 {446},Cts/S, 9693.6,26.084,.26908,9712.0,9675.1
Y_2243,224.306 {450},Cts/S, 16877.,40.603,.24058,16906.,16849.
Y_3600,360.073 { 94},Cts/S, 158760.,95.474,.06014,158830.,158690.
Y_3710,371.030 { 91},Cts/S, 47237.,2375.9,5.0298,48917.,45557.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=PDS 600-61333-a-5-e
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:08:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5610,.0646,11.52, .6067, .5153
Al3082,308.215 {109},In2306,ppm, 9.680,.3280,3.389, 9.448, 9.912
As1890,189.042 {478},Y_2243,ppm, 1.018,.0090,.8811, 1.012, 1.025
B_2496,249.678 {135},Y_3710,ppm, .9737,.0211,2.166, .9588, .9886
Ba4554,455.403 { 74},Y_3710,ppm, 1.059,.0267,2.522, 1.041, 1.078
Be3130,313.042 {108},Y_3710,ppm, .4760,.0117,2.464, .4677, .4843
Ca3158,315.887 {107},In2306,ppm, 54.21,1.186,2.188, 53.37, 55.04
Ca3181,318.128 {106},In2306,ppm, 53.28,1.350,2.533, 52.32, 54.23
Cd2288,228.802 {447},Y_2243,ppm, .4970,.0062,1.254, .4926, .5014
Co2286,228.616 {447},In2306,ppm, .9573,.0143,1.499, .9472, .9674
Cr2677,267.716 {126},Y_3600,ppm, 1.077,.1248,11.59, 1.165, .9883
Cu3247,324.754 {104},Y_3600,ppm, 1.120,.1311,11.71, 1.212, 1.027
Fe2404,240.488 {140},In2306,ppm, 9.564,.3021,3.159, 9.350, 9.777
K_7664,766.490 { 44},Y_3710,ppm, 10.74,.1327,1.236, 10.64, 10.83
K_7698,769.896 { 44},Y_3710,ppm, 10.86,.1464,1.349, 10.75, 10.96
Li6707,670.784 { 50},Y_3710,ppm, .9987,.0232,2.327, .9822, 1.015
Mg2790,279.079 {121},Y_3710,ppm, 15.97,.4205,2.633, 15.68, 16.27
Mn2576,257.610 {131},Y_3600,ppm, 1.354,.1551,11.45, 1.464, 1.245
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.187,.0237,1.997, 1.171, 1.204
Mo2020,202.030 {467},Y_2243,ppm, 1.048,.0165,1.577, 1.037, 1.060
Na5895,589.592 { 57},Y_3710,ppm, 15.46,.0211,.1363, 15.44, 15.47
Na8183,818.326 { 41},Y_3710,ppm, 14.94,.0038,.0255, 14.94, 14.94
Ni2316,231.604 {445},In2306,ppm, .9699,.0159,1.639, .9586, .9811
P_1782,178.284 {489},In2306,ppm, 1.090,.0128,1.171, 1.081, 1.099
Pb2203,220.353 {453},In2306,ppm, .9723,.0134,1.378, .9628, .9818
S_1820,182.034 {485},Y_2243,ppm, -4153.,56.34,1.357, -4113., -4193.
Sb2068,206.833 {463},Y_2243,ppm, 1.012,.0098,.9692, 1.005, 1.019
Se1960,196.090 {472},Y_2243,ppm, 1.030,.0105,1.017, 1.023, 1.038
Si2516,251.611 {134},Y_3710,ppm, 1.747,.0532,3.047, 1.710, 1.785
Sn1899,189.989 {477},In2306,ppm, .9909,.0120,1.214, .9824, .9994
Sr4215,421.552 { 80},Y_3710,ppm, .6470,.0164,2.541, .6354, .6586
Ti3349,334.904 {101},Y_3600,ppm, 1.109,.1304,11.76, 1.201, 1.017
Tl1908,190.856 {477},In2306,ppm, .9923,.0148,1.492, .9819, 1.003
V_2924,292.402 {115},Y_3600,ppm, 1.098,.1273,11.60, 1.188, 1.008
Zn2062,206.200 {463},In2306,ppm, .9414,.0145,1.537, .9311, .9516

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1008.6,9.0127,.89356,1015.0,1002.3
In2306,230.606 {446},Cts/S, 11800.,134.95,1.1436,11896.,11705.
Y_2243,224.306 {450},Cts/S, 19175.,182.83,.95352,19304.,19045.
Y_3600,360.073 { 94},Cts/S, 171330.,16042.,9.3630,159990.,182680.
Y_3710,371.030 { 91},Cts/S, 51790.,180.66,.34882,51917.,51662.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=SD 600-61333-a-5-e@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:10:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0010,.0013,128.2, .0020, .0001
Al3082,308.215 {109},In2306,ppm, -.0090,.0164,182.0, -.0206, .0026
As1890,189.042 {478},Y_2243,ppm, .0009,.0002,23.09, .0007, .0010
B_2496,249.678 {135},Y_3710,ppm, .0101,.0014,13.63, .0091, .0110
Ba4554,455.403 { 74},Y_3710,ppm, .0189,.0003,1.553, .0191, .0187
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,59.38, .0003, .0001
Ca3158,315.887 {107},In2306,ppm, 8.882,.0724,.8146, 8.933, 8.831
Ca3181,318.128 {106},In2306,ppm, 8.754,.0315,.3597, 8.777, 8.732
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0003,141.9, .0000, .0004
Co2286,228.616 {447},In2306,ppm, .0006,.0006,93.90, .0002, .0011
Cr2677,267.716 {126},Y_3600,ppm, .0007,.0002,29.25, .0005, .0008
Cu3247,324.754 {104},Y_3600,ppm, .0002,.0005,277.3, .0006, -.0002
Fe2404,240.488 {140},In2306,ppm, .0068,.0003,4.613, .0070, .0066
K_7664,766.490 { 44},Y_3710,ppm, .2355,.0051,2.164, .2391, .2319
K_7698,769.896 { 44},Y_3710,ppm, .2018,.0311,15.43, .2238, .1798
Li6707,670.784 { 50},Y_3710,ppm, .0048,.0002,4.609, .0050, .0046
Mg2790,279.079 {121},Y_3710,ppm, 1.394,.0095,.6836, 1.387, 1.401
Mn2576,257.610 {131},Y_3600,ppm, .0472,.0000,.0162, .0472, .0472
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0458,.0000,.0569, .0458, .0458
Mo2020,202.030 {467},Y_2243,ppm, .0054,.0014,26.31, .0044, .0064
Na5895,589.592 { 57},Y_3710,ppm, 1.071,.0223,2.080, 1.087, 1.055
Na8183,818.326 { 41},Y_3710,ppm, 1.113,.0370,3.321, 1.087, 1.139
Ni2316,231.604 {445},In2306,ppm, .0020,.0006,30.17, .0016, .0024
P_1782,178.284 {489},In2306,ppm, .0171,.0008,4.870, .0165, .0177
Pb2203,220.353 {453},In2306,ppm, .0004,.0000,.0460, .0004, .0004
S_1820,182.034 {485},Y_2243,ppm, -818.9,11.22,1.370, -811.0, -826.8
Sb2068,206.833 {463},Y_2243,ppm, .0035,.0023,66.18, .0019, .0052
Se1960,196.090 {472},Y_2243,ppm, .0012,.0017,148.0, -.0001, .0024
Si2516,251.611 {134},Y_3710,ppm, .1643,.0037,2.234, .1617, .1669
Sn1899,189.989 {477},In2306,ppm, .0017,.0002,10.36, .0016, .0019
Sr4215,421.552 { 80},Y_3710,ppm, .0332,.0002,.6530, .0334, .0331
Ti3349,334.904 {101},Y_3600,ppm, .0008,.0004,44.81, .0011, .0006
Tl1908,190.856 {477},In2306,ppm, -.0003,.0013,456.4, -.0012, .0006
V_2924,292.402 {115},Y_3600,ppm, .0002,.0001,67.52, .0002, .0001
Zn2062,206.200 {463},In2306,ppm, .0036,.0004,12.29, .0033, .0039

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

In2306,230.606 {146},Cts/S, 1040.4,10.212,.98155,1033.2,1047.7
In2306,230.606 {446},Cts/S, 12056.,154.87,1.2846,12165.,11946.
Y_2243,224.306 {450},Cts/S, 19715.,289.47,1.4683,19919.,19510.
Y_3600,360.073 { 94},Cts/S, 189300.,619.37,.32718,189740.,188860.
Y_3710,371.030 { 91},Cts/S, 51950.,59.373,.11429,51992.,51908.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:12:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2509,.0028,1.106, .2489, .2529
Al3082,308.215 {109},In2306,ppm, 2.437,.1177,4.831, 2.354, 2.520
As1890,189.042 {478},Y_2243,ppm, .5278,.0382,7.238, .5008, .5548
B_2496,249.678 {135},Y_3710,ppm, .4937,.0120,2.430, .4852, .5022
Ba4554,455.403 { 74},Y_3710,ppm, .4958,.0199,4.018, .4817, .5099
Be3130,313.042 {108},Y_3710,ppm, .4976,.0213,4.287, .4826, .5127
Ca3158,315.887 {107},In2306,ppm, 12.47,.5445,4.367, 12.08, 12.85
Ca3181,318.128 {106},In2306,ppm, 12.24,.5612,4.583, 11.85, 12.64
Cd2288,228.802 {447},Y_2243,ppm, .5141,.0375,7.299, .4875, .5406
Co2286,228.616 {447},In2306,ppm, .5100,.0402,7.889, .4816, .5385
Cr2677,267.716 {126},Y_3600,ppm, .4884,.0034,.7057, .4859, .4908
Cu3247,324.754 {104},Y_3600,ppm, .4850,.0001,.0253, .4849, .4851
Fe2404,240.488 {140},In2306,ppm, 2.472,.1085,4.390, 2.395, 2.549
K_7664,766.490 { 44},Y_3710,ppm, 12.39,.3765,3.039, 12.12, 12.66
K_7698,769.896 { 44},Y_3710,ppm, 12.53,.3687,2.942, 12.27, 12.79
Li6707,670.784 { 50},Y_3710,ppm, .5060,.0166,3.283, .4943, .5178
Mg2790,279.079 {121},Y_3710,ppm, 4.872,.1979,4.061, 4.733, 5.012
Mn2576,257.610 {131},Y_3600,ppm, .4960,.0019,.3755, .4947, .4973
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5025,.0225,4.470, .4867, .5184
Mo2020,202.030 {467},Y_2243,ppm, .5446,.0413,7.587, .5154, .5738
Na5895,589.592 { 57},Y_3710,ppm, 12.61,.4112,3.262, 12.32, 12.90
Na8183,818.326 { 41},Y_3710,ppm, 12.43,.4399,3.540, 12.12, 12.74
Ni2316,231.604 {445},In2306,ppm, .5115,.0411,8.029, .4825, .5405
P_1782,178.284 {489},In2306,ppm, .5149,.0399,7.753, .4867, .5432
Pb2203,220.353 {453},In2306,ppm, .5097,.0396,7.766, .4817, .5376
S_1820,182.034 {485},Y_2243,ppm, -220.2,15.61,7.087, -209.2, -231.2
Sb2068,206.833 {463},Y_2243,ppm, .5258,.0369,7.022, .4997, .5519
Se1960,196.090 {472},Y_2243,ppm, .5247,.0349,6.648, .5000, .5493
Si2516,251.611 {134},Y_3710,ppm, .9641,.0425,4.404, .9341, .9942
Sn1899,189.989 {477},In2306,ppm, .5282,.0413,7.814, .4990, .5573
Sr4215,421.552 { 80},Y_3710,ppm, .2513,.0103,4.095, .2441, .2586
Ti3349,334.904 {101},Y_3600,ppm, .5011,.0034,.6865, .5035, .4987
Tl1908,190.856 {477},In2306,ppm, .5172,.0377,7.282, .4906, .5439
V_2924,292.402 {115},Y_3600,ppm, .4965,.0017,.3412, .4953, .4977
Zn2062,206.200 {463},In2306,ppm, .5065,.0427,8.440, .4763, .5367

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 995.32,22.851,2.2958,1011.5,979.17
In2306,230.606 {446},Cts/S, 11524.,694.21,6.0243,12014.,11033.
Y_2243,224.306 {450},Cts/S, 18783.,1088.2,5.7937,19552.,18013.

Y_3600,360.073 { 94},Cts/S, 188380.,422.85,.22446,188680.,188080.
Y_3710,371.030 { 91},Cts/S, 49913.,1226.7,2.4576,50781.,49046.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:14:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0062,.0001,2.383, .0061, .0063
Al3082,308.215 {109},In2306,ppm, .0876,.0153,17.44, .0768, .0984
As1890,189.042 {478},Y_2243,ppm, .0096,.0004,4.526, .0099, .0093
B_2496,249.678 {135},Y_3710,ppm, .0106,.0030,28.39, .0085, .0127
Ba4554,455.403 { 74},Y_3710,ppm, .0102,.0002,1.705, .0103, .0100
Be3130,313.042 {108},Y_3710,ppm, .0051,.0000,.0475, .0051, .0051
Ca3158,315.887 {107},In2306,ppm, .1161,.0011,.9781, .1153, .1169
Ca3181,318.128 {106},In2306,ppm, .0589,.0143,24.29, .0690, .0488
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0002,3.238, .0050, .0052
Co2286,228.616 {447},In2306,ppm, .0098,.0001,.6600, .0098, .0099
Cr2677,267.716 {126},Y_3600,ppm, .0103,.0001,.6576, .0103, .0102
Cu3247,324.754 {104},Y_3600,ppm, .0095,.0001,1.426, .0095, .0096
Fe2404,240.488 {140},In2306,ppm, .0977,.0015,1.572, .0988, .0966
K_7664,766.490 { 44},Y_3710,ppm, .5672,.0048,.8548, .5706, .5637
K_7698,769.896 { 44},Y_3710,ppm, .5171,.0529,10.23, .4797, .5545
Li6707,670.784 { 50},Y_3710,ppm, .0107,.0002,2.286, .0106, .0109
Mg2790,279.079 {121},Y_3710,ppm, .1072,.0080,7.430, .1015, .1128
Mn2576,257.610 {131},Y_3600,ppm, .0100,.0000,.2232, .0100, .0101
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0110,.0000,.0744, .0110, .0110
Mo2020,202.030 {467},Y_2243,ppm, .0113,.0005,4.605, .0109, .0117
Na5895,589.592 { 57},Y_3710,ppm, .6360,.0053,.8387, .6398, .6322
Na8183,818.326 { 41},Y_3710,ppm, .7170,.0891,12.42, .7800, .6540
Ni2316,231.604 {445},In2306,ppm, .0102,.0001,.9401, .0102, .0101
P_1782,178.284 {489},In2306,ppm, .0077,.0001,.8481, .0078, .0077
Pb2203,220.353 {453},In2306,ppm, .0106,.0000,.1700, .0106, .0106
S_1820,182.034 {485},Y_2243,ppm, -.0753,.0549,72.86, -.1141, -.0365
Sb2068,206.833 {463},Y_2243,ppm, .0116,.0003,2.284, .0114, .0118
Se1960,196.090 {472},Y_2243,ppm, .0105,.0016,15.06, .0094, .0116
Si2516,251.611 {134},Y_3710,ppm, .0087,.0069,78.70, .0136, .0039
Sn1899,189.989 {477},In2306,ppm, .0103,.0013,12.49, .0094, .0112
Sr4215,421.552 { 80},Y_3710,ppm, .0050,.0001,1.314, .0051, .0050
Ti3349,334.904 {101},Y_3600,ppm, .0102,.0001,1.060, .0103, .0101
Tl1908,190.856 {477},In2306,ppm, .0112,.0013,12.06, .0102, .0121
V_2924,292.402 {115},Y_3600,ppm, .0101,.0001,1.176, .0102, .0100
Zn2062,206.200 {463},In2306,ppm, .0104,.0000,.1046, .0104, .0104

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1016.5,9.9547,.97931,1009.5,1023.5
In2306,230.606 {446},Cts/S, 12001.,61.587,.51320,11957.,12044.
Y_2243,224.306 {450},Cts/S, 19690.,109.83,.55778,19612.,19768.
Y_3600,360.073 { 94},Cts/S, 194310.,1458.5,.75062,195340.,193270.
Y_3710,371.030 { 91},Cts/S, 50729.,462.24,.91119,50402.,51056.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:17:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0005,345.0, .0005, -.0002
Al3082,308.215 {109},In2306,ppm, -.0042,.0132,314.5, .0051, -.0135
As1890,189.042 {478},Y_2243,ppm, .0003,.0008,283.6, .0009, -.0003
B_2496,249.678 {135},Y_3710,ppm, -.0005,.0023,418.7, .0011, -.0022
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0000,2.702, -.0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,75.85, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0100,.0070,70.15, .0050, .0150
Ca3181,318.128 {106},In2306,ppm, -.0108,.0149,137.9, -.0213, -.0003
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,80.81, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0000,68.71, .0001, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0000,21.89, .0001, .0001
Cu3247,324.754 {104},Y_3600,ppm, -.0005,.0003,63.13, -.0003, -.0007
Fe2404,240.488 {140},In2306,ppm, .0013,.0034,259.0, .0037, -.0011
K_7664,766.490 { 44},Y_3710,ppm, -.0239,.0201,83.87, -.0097, -.0381
K_7698,769.896 { 44},Y_3710,ppm, -.1162,.0337,29.01, -.0923, -.1400
Li6707,670.784 { 50},Y_3710,ppm, -.0001,.0002,162.8, .0000, -.0003
Mg2790,279.079 {121},Y_3710,ppm, -.0009,.0063,709.6, .0036, -.0054
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,210.0, -.0001, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0002,29.89, .0004, .0006
Mo2020,202.030 {467},Y_2243,ppm, .0002,.0001,35.40, .0002, .0003
Na5895,589.592 { 57},Y_3710,ppm, .0262,.0059,22.36, .0304, .0221
Na8183,818.326 { 41},Y_3710,ppm, .1563,.0011,.7257, .1571, .1555
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,85.80, .0002, .0000
P_1782,178.284 {489},In2306,ppm, .0002,.0011,524.9, -.0006, .0010
Pb2203,220.353 {453},In2306,ppm, .0004,.0002,43.18, .0003, .0005
S_1820,182.034 {485},Y_2243,ppm, .1252,.0150,11.97, .1358, .1146
Sb2068,206.833 {463},Y_2243,ppm, -.0005,.0010,192.2, .0002, -.0013
Se1960,196.090 {472},Y_2243,ppm, -.0003,.0003,98.46, -.0001, -.0005
Si2516,251.611 {134},Y_3710,ppm, -.0007,.0037,551.2, .0019, -.0033
Sn1899,189.989 {477},In2306,ppm, -.0011,.0008,71.64, -.0005, -.0016
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,32.82, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0001,64.85, -.0003, -.0001
Tl1908,190.856 {477},In2306,ppm, -.0041,.0013,32.57, -.0050, -.0031
V_2924,292.402 {115},Y_3600,ppm, -.0002,.0000,5.045, -.0003, -.0002
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,11.27, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1068.8,42.900,4.0137,1038.5,1099.2
In2306,230.606 {446},Cts/S, 11962.,13.217,.11049,11952.,11971.
Y_2243,224.306 {450},Cts/S, 19639.,.08280,.00042,19639.,19639.
Y_3600,360.073 { 94},Cts/S, 184530.,2861.5,1.5507,186560.,182510.
Y_3710,371.030 { 91},Cts/S, 53069.,2204.3,4.1537,51510.,54627.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)

SampleName=mb 600-89720/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:19:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0005,.0006,112.8, .0001, .0010
Al3082,308.215 {109},In2306,ppm, .0007,.0065,957.8, .0053, -.0039
As1890,189.042 {478},Y_2243,ppm, -.0007,.0004,57.83, -.0010, -.0004
B_2496,249.678 {135},Y_3710,ppm, .0010,.0000,.1813, .0010, .0010
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,244.8, .0000, .0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,46.89, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, -.0010,.0027,276.1, .0009, -.0029
Ca3181,318.128 {106},In2306,ppm, -.0368,.0118,32.09, -.0284, -.0451
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,248.6, .0002, .0000
Co2286,228.616 {447},In2306,ppm, -.0003,.0001,36.92, -.0003, -.0002
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0000,7.307, .0003, .0003
Cu3247,324.754 {104},Y_3600,ppm, .0003,.0004,121.0, .0006, .0000
Fe2404,240.488 {140},In2306,ppm, .0036,.0002,5.310, .0035, .0038
K_7664,766.490 { 44},Y_3710,ppm, -.0091,.0026,28.76, -.0110, -.0073
K_7698,769.896 { 44},Y_3710,ppm, -.0263,.1197,455.0, .0583, -.1109
Li6707,670.784 { 50},Y_3710,ppm, -.0001,.0001,94.62, .0000, -.0001
Mg2790,279.079 {121},Y_3710,ppm, .0081,.0039,47.72, .0108, .0054
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0000,85.62, .0000, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0003,.0004,152.1, .0000, .0005
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0001,21.40, -.0004, -.0006
Na5895,589.592 { 57},Y_3710,ppm, .0123,.0029,23.65, .0143, .0102
Na8183,818.326 { 41},Y_3710,ppm, .0677,.1073,158.5, -.0082, .1435
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,70.33, .0000, .0001
P_1782,178.284 {489},In2306,ppm, -.0010,.0001,6.744, -.0010, -.0010
Pb2203,220.353 {453},In2306,ppm, .0003,.0002,91.20, .0001, .0004
S_1820,182.034 {485},Y_2243,ppm, -.5857,.0421,7.193, -.5559, -.6155
Sb2068,206.833 {463},Y_2243,ppm, -.0015,.0003,20.76, -.0013, -.0017
Se1960,196.090 {472},Y_2243,ppm, .0001,.0009,705.4, .0008, -.0005
Si2516,251.611 {134},Y_3710,ppm, .0050,.0017,32.94, .0039, .0062
Sn1899,189.989 {477},In2306,ppm, -.0004,.0002,43.75, -.0006, -.0003
Sr4215,421.552 { 80},Y_3710,ppm, -.0002,.0000,5.435, -.0002, -.0002
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0000,4.146, .0004, .0004
Tl1908,190.856 {477},In2306,ppm, -.0007,.0009,133.8, .0000, -.0014
V_2924,292.402 {115},Y_3600,ppm, -.0006,.0002,36.57, -.0005, -.0008
Zn2062,206.200 {463},In2306,ppm, .0013,.0001,9.358, .0014, .0012

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1022.9,17.917,1.7517,1010.2,1035.5
In2306,230.606 {446},Cts/S, 11940.,463.90,3.8854,11612.,12268.
Y_2243,224.306 {450},Cts/S, 19667.,784.40,3.9884,19112.,20221.
Y_3600,360.073 { 94},Cts/S, 198950.,2422.7,1.2178,197230.,200660.
Y_3710,371.030 { 91},Cts/S, 50995.,1007.8,1.9763,50282.,51707.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lcs 600-89720/2-a
Username=admin
Comment=

Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:22:12
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5333,.0024,.4409, .5316, .5350
Al3082,308.215 {109},In2306,ppm, 10.24,.3529,3.444, 9.995, 10.49
As1890,189.042 {478},Y_2243,ppm, 1.017,.0162,1.594, 1.029, 1.006
B_2496,249.678 {135},Y_3710,ppm, 1.018,.0282,2.775, .9981, 1.038
Ba4554,455.403 { 74},Y_3710,ppm, 1.029,.0292,2.841, 1.008, 1.049
Be3130,313.042 {108},Y_3710,ppm, .5164,.0140,2.707, .5065, .5263
Ca3158,315.887 {107},In2306,ppm, 10.33,.2907,2.814, 10.13, 10.54
Ca3181,318.128 {106},In2306,ppm, 10.19,.2766,2.713, 9.998, 10.39
Cd2288,228.802 {447},Y_2243,ppm, .5044,.0106,2.092, .5119, .4970
Co2286,228.616 {447},In2306,ppm, 1.001,.0206,2.062, 1.016, .9869
Cr2677,267.716 {126},Y_3600,ppm, 1.026,.0025,.2442, 1.028, 1.024
Cu3247,324.754 {104},Y_3600,ppm, 1.047,.0061,.5841, 1.051, 1.042
Fe2404,240.488 {140},In2306,ppm, 10.28,.2786,2.710, 10.08, 10.48
K_7664,766.490 { 44},Y_3710,ppm, 10.20,.1469,1.441, 10.09, 10.30
K_7698,769.896 { 44},Y_3710,ppm, 10.39,.1388,1.336, 10.29, 10.49
Li6707,670.784 { 50},Y_3710,ppm, .5186,.0121,2.332, .5101, .5272
Mg2790,279.079 {121},Y_3710,ppm, 10.11,.2035,2.013, 9.969, 10.26
Mn2576,257.610 {131},Y_3600,ppm, 1.043,.0057,.5454, 1.047, 1.039
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.031,.0301,2.917, 1.010, 1.053
Mo2020,202.030 {467},Y_2243,ppm, 1.079,.0267,2.477, 1.098, 1.060
Na5895,589.592 { 57},Y_3710,ppm, 10.36,.1978,1.910, 10.22, 10.50
Na8183,818.326 { 41},Y_3710,ppm, 10.36,.0184,.1775, 10.35, 10.37
Ni2316,231.604 {445},In2306,ppm, .9973,.0216,2.169, 1.013, .9820
P_1782,178.284 {489},In2306,ppm, -.0003,.0015,547.5, .0008, -.0013
Pb2203,220.353 {453},In2306,ppm, .9935,.0229,2.301, 1.010, .9774
S_1820,182.034 {485},Y_2243,ppm, -.1595,.0937,58.73, -.0932, -.2257
Sb2068,206.833 {463},Y_2243,ppm, 1.032,.0188,1.819, 1.046, 1.019
Se1960,196.090 {472},Y_2243,ppm, 1.026,.0188,1.830, 1.039, 1.013
Si2516,251.611 {134},Y_3710,ppm, 1.002,.0181,1.806, .9895, 1.015
Sn1899,189.989 {477},In2306,ppm, 1.025,.0222,2.162, 1.041, 1.009
Sr4215,421.552 { 80},Y_3710,ppm, .5190,.0141,2.714, .5090, .5289
Ti3349,334.904 {101},Y_3600,ppm, 1.054,.0019,.1828, 1.055, 1.052
Tl1908,190.856 {477},In2306,ppm, 1.022,.0265,2.592, 1.041, 1.003
V_2924,292.402 {115},Y_3600,ppm, 1.044,.0029,.2806, 1.046, 1.042
Zn2062,206.200 {463},In2306,ppm, .9754,.0212,2.172, .9904, .9604

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 986.61,4.6104,.46730,983.35,989.87
In2306,230.606 {446},Cts/S, 12019.,194.87,1.6214,11881.,12156.
Y_2243,224.306 {450},Cts/S, 19724.,329.59,1.6710,19491.,19957.
Y_3600,360.073 { 94},Cts/S, 185770.,829.33,.44644,185180.,186350.
Y_3710,371.030 { 91},Cts/S, 50210.,355.51,.70804,49958.,50461.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89674/1-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=

Run Time=9/28/2012 11:24:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0010,554.1, -.0005, .0009
Al3082,308.215 {109},In2306,ppm, -.0055,.0100,180.7, -.0126, .0015
As1890,189.042 {478},Y_2243,ppm, .0019,.0005,28.85, .0015, .0022
B_2496,249.678 {135},Y_3710,ppm, .0035,.0011,31.03, .0042, .0027
Ba4554,455.403 { 74},Y_3710,ppm, .0014,.0000,2.419, .0014, .0014
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,77.06, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, .8679,.0082,.9403, .8736, .8621
Ca3181,318.128 {106},In2306,ppm, .8409,.0190,2.263, .8544, .8275
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0006,132.4, .0000, .0009
Co2286,228.616 {447},In2306,ppm, .0012,.0015,120.9, .0002, .0023
Cr2677,267.716 {126},Y_3600,ppm, .0006,.0005,79.10, .0010, .0003
Cu3247,324.754 {104},Y_3600,ppm, .0021,.0001,5.557, .0021, .0022
Fe2404,240.488 {140},In2306,ppm, .0051,.0021,41.99, .0066, .0036
K_7664,766.490 { 44},Y_3710,ppm, .0324,.0067,20.75, .0277, .0372
K_7698,769.896 { 44},Y_3710,ppm, .0090,.0601,664.7, .0515, -.0334
Li6707,670.784 { 50},Y_3710,ppm, -.0007,.0004,60.62, -.0010, -.0004
Mg2790,279.079 {121},Y_3710,ppm, .0142,.0210,148.2, -.0007, .0291
Mn2576,257.610 {131},Y_3600,ppm, .0003,.0002,52.53, .0004, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0001,.0005,693.4, .0003, -.0005
Mo2020,202.030 {467},Y_2243,ppm, .0034,.0022,65.51, .0018, .0050
Na5895,589.592 { 57},Y_3710,ppm, 142.5,.2668,.1871, 142.4, 142.7
Na8183,818.326 { 41},Y_3710,ppm, 147.4,1.283,.8706, 148.3, 146.5
Ni2316,231.604 {445},In2306,ppm, .0010,.0016,156.3, -.0001, .0021
P_1782,178.284 {489},In2306,ppm, .1723,.0039,2.279, .1750, .1695
Pb2203,220.353 {453},In2306,ppm, .0012,.0000,2.938, .0011, .0012
S_1820,182.034 {485},Y_2243,ppm, -1.167,.1778,15.24, -1.292, -1.041
Sb2068,206.833 {463},Y_2243,ppm, .0048,.0019,40.47, .0034, .0061
Se1960,196.090 {472},Y_2243,ppm, .0020,.0020,100.2, .0006, .0034
Si2516,251.611 {134},Y_3710,ppm, .0090,.0046,50.60, .0058, .0123
Sn1899,189.989 {477},In2306,ppm, .0020,.0016,79.00, .0009, .0031
Sr4215,421.552 { 80},Y_3710,ppm, .0005,.0001,11.22, .0005, .0004
Ti3349,334.904 {101},Y_3600,ppm, .0005,.0001,11.72, .0005, .0004
Tl1908,190.856 {477},In2306,ppm, .0049,.0064,130.4, .0004, .0094
V_2924,292.402 {115},Y_3600,ppm, -.0010,.0000,1.972, -.0010, -.0010
Zn2062,206.200 {463},In2306,ppm, .0054,.0012,22.44, .0045, .0062

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1004.5,19.879,1.9790,990.46,1018.6
In2306,230.606 {446},Cts/S, 11802.,169.90,1.4396,11682.,11922.
Y_2243,224.306 {450},Cts/S, 19310.,256.40,1.3278,19128.,19491.
Y_3600,360.073 { 94},Cts/S, 178680.,7215.2,4.0380,173580.,183790.
Y_3710,371.030 { 91},Cts/S, 50504.,633.76,1.2549,50056.,50952.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61910-b-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:26:53
Sample Type=Unk
Mode=CONC

CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0010,.0005,54.94, -.0014, -.0006
Al3082,308.215 {109},In2306,ppm, .0547,.0131,23.92, .0454, .0639
As1890,189.042 {478},Y_2243,ppm, .0014,.0001,8.241, .0013, .0015
B_2496,249.678 {135},Y_3710,ppm, .0541,.0047,8.603, .0509, .0574
Ba4554,455.403 { 74},Y_3710,ppm, .0678,.0062,9.100, .0635, .0722
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,70.21, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 10.84,.9621,8.874, 10.16, 11.52
Ca3181,318.128 {106},In2306,ppm, 10.59,.8949,8.453, 9.955, 11.22
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0000,18.90, .0002, .0003
Co2286,228.616 {447},In2306,ppm, .0001,.0001,118.6, .0000, .0002
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0001,8.009, .0012, .0011
Cu3247,324.754 {104},Y_3600,ppm, .0015,.0001,6.327, .0014, .0016
Fe2404,240.488 {140},In2306,ppm, .0406,.0035,8.535, .0381, .0430
K_7664,766.490 { 44},Y_3710,ppm, .1866,.0211,11.32, .1717, .2015
K_7698,769.896 { 44},Y_3710,ppm, .1574,.0905,57.51, .0934, .2214
Li6707,670.784 { 50},Y_3710,ppm, .0002,.0000,8.494, .0002, .0002
Mg2790,279.079 {121},Y_3710,ppm, 2.061,.1954,9.483, 1.922, 2.199
Mn2576,257.610 {131},Y_3600,ppm, .0620,.0013,2.080, .0629, .0611
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0606,.0062,10.21, .0562, .0650
Mo2020,202.030 {467},Y_2243,ppm, -.0001,.0002,308.2, -.0002, .0001
Na5895,589.592 { 57},Y_3710,ppm, 130.0,14.48,11.14, 119.8, 140.2
Na8183,818.326 { 41},Y_3710,ppm, 135.2,12.24,9.051, 126.5, 143.8
Ni2316,231.604 {445},In2306,ppm, .0021,.0002,11.61, .0019, .0022
P_1782,178.284 {489},In2306,ppm, .0275,.0004,1.618, .0271, .0278
Pb2203,220.353 {453},In2306,ppm, .0015,.0002,13.17, .0013, .0016
S_1820,182.034 {485},Y_2243,ppm, -63.18,.4267,.6754, -63.48, -62.88
Sb2068,206.833 {463},Y_2243,ppm, -.0013,.0014,106.0, -.0003, -.0023
Se1960,196.090 {472},Y_2243,ppm, .0026,.0003,11.66, .0024, .0028
Si2516,251.611 {134},Y_3710,ppm, .6037,.0460,7.617, .5712, .6362
Sn1899,189.989 {477},In2306,ppm, .0004,.0004,100.2, .0007, .0001
Sr4215,421.552 { 80},Y_3710,ppm, .0453,.0044,9.812, .0422, .0485
Ti3349,334.904 {101},Y_3600,ppm, .0013,.0001,8.907, .0014, .0012
Tl1908,190.856 {477},In2306,ppm, .0006,.0003,48.76, .0004, .0008
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0006,609.0, .0003, -.0005
Zn2062,206.200 {463},In2306,ppm, .0834,.0009,1.055, .0840, .0827

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1017.3,63.653,6.2569,1062.3,972.32
In2306,230.606 {446},Cts/S, 11722.,93.630,.79875,11656.,11788.
Y_2243,224.306 {450},Cts/S, 19210.,138.70,.72202,19112.,19308.
Y_3600,360.073 { 94},Cts/S, 181470.,2366.1,1.3038,179800.,183150.
Y_3710,371.030 { 91},Cts/S, 51567.,3535.3,6.8557,54067.,49068.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61910-b-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:29:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

```
[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5180,.0502,9.698, .5535, .4825
Al3082,308.215 {109},In2306,ppm, 10.78,.0191,.1773, 10.77, 10.80
As1890,189.042 {478},Y_2243,ppm, 1.063,.0180,1.690, 1.075, 1.050
B_2496,249.678 {135},Y_3710,ppm, 1.098,.0034,.3126, 1.100, 1.096
Ba4554,455.403 { 74},Y_3710,ppm, 1.131,.0098,.8640, 1.138, 1.124
Be3130,313.042 {108},Y_3710,ppm, .5371,.0037,.6874, .5398, .5345
Ca3158,315.887 {107},In2306,ppm, 22.04,.2056,.9327, 22.19, 21.90
Ca3181,318.128 {106},In2306,ppm, 21.72,.1318,.6069, 21.81, 21.63
Cd2288,228.802 {447},Y_2243,ppm, .5184,.0103,1.992, .5257, .5111
Co2286,228.616 {447},In2306,ppm, 1.018,.0205,2.015, 1.032, 1.003
Cr2677,267.716 {126},Y_3600,ppm, .9760,.1026,10.51, 1.049, .9035
Cu3247,324.754 {104},Y_3600,ppm, 1.010,.1021,10.11, 1.082, .9380
Fe2404,240.488 {140},In2306,ppm, 10.71,.0514,.4797, 10.74, 10.67
K_7664,766.490 { 44},Y_3710,ppm, 10.70,.1015,.9484, 10.78, 10.63
K_7698,769.896 { 44},Y_3710,ppm, 10.82,.1151,1.064, 10.90, 10.74
Li6707,670.784 { 50},Y_3710,ppm, .5308,.0048,.9022, .5342, .5274
Mg2790,279.079 {121},Y_3710,ppm, 12.43,.0876,.7046, 12.49, 12.37
Mn2576,257.610 {131},Y_3600,ppm, 1.045,.1089,10.42, 1.122, .9680
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.119,.0087,.7815, 1.125, 1.112
Mo2020,202.030 {467},Y_2243,ppm, 1.097,.0162,1.481, 1.108, 1.085
Na5895,589.592 { 57},Y_3710,ppm, 145.9,7.324,5.020, 140.7, 151.1
Na8183,818.326 { 41},Y_3710,ppm, 151.0,1.368,.9059, 151.9, 150.0
Ni2316,231.604 {445},In2306,ppm, 1.016,.0194,1.911, 1.029, 1.002
P_1782,178.284 {489},In2306,ppm, .0281,.0015,5.314, .0291, .0270
Pb2203,220.353 {453},In2306,ppm, 1.012,.0211,2.086, 1.027, .9969
S_1820,182.034 {485},Y_2243,ppm, -61.94,.5498,.8876, -62.33, -61.55
Sb2068,206.833 {463},Y_2243,ppm, 1.044,.0213,2.037, 1.059, 1.029
Se1960,196.090 {472},Y_2243,ppm, 1.072,.0138,1.289, 1.082, 1.062
Si2516,251.611 {134},Y_3710,ppm, 1.665,.0177,1.064, 1.677, 1.652
Sn1899,189.989 {477},In2306,ppm, 1.046,.0156,1.493, 1.057, 1.035
Sr4215,421.552 { 80},Y_3710,ppm, .5834,.0042,.7206, .5864, .5804
Ti3349,334.904 {101},Y_3600,ppm, 1.011,.1059,10.48, 1.086, .9361
Tl1908,190.856 {477},In2306,ppm, 1.043,.0203,1.951, 1.057, 1.028
V_2924,292.402 {115},Y_3600,ppm, 1.005,.1026,10.21, 1.078, .9328
Zn2062,206.200 {463},In2306,ppm, 1.080,.0190,1.760, 1.093, 1.066

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 961.54,8.3143,.86469,955.66,967.42
In2306,230.606 {446},Cts/S, 11613.,192.75,1.6598,11476.,11749.
Y_2243,224.306 {450},Cts/S, 19203.,268.98,1.4007,19013.,19394.
Y_3600,360.073 { 94},Cts/S, 186710.,15302.,8.1955,175890.,197530.
Y_3710,371.030 { 91},Cts/S, 49474.,560.93,1.1338,49077.,49871.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61910-b-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:31:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5358,.0005,.0858, .5355, .5361
```

```
Al3082,308.215 {109},In2306,ppm, 11.85,1.410,11.90, 10.86, 12.85
As1890,189.042 {478},Y_2243,ppm, 1.060,.0010,.0933, 1.060, 1.059
B_2496,249.678 {135},Y_3710,ppm, 1.198,.1328,11.08, 1.104, 1.292
Ba4554,455.403 { 74},Y_3710,ppm, 1.231,.1411,11.46, 1.131, 1.331
Be3130,313.042 {108},Y_3710,ppm, .5861,.0681,11.62, .5379, .6342
Ca3158,315.887 {107},In2306,ppm, 24.01,2.772,11.55, 22.05, 25.97
Ca3181,318.128 {106},In2306,ppm, 23.59,2.735,11.60, 21.65, 25.52
Cd2288,228.802 {447},Y_2243,ppm, .5196,.0003,.0649, .5198, .5193
Co2286,228.616 {447},In2306,ppm, 1.022,.0036,.3476, 1.019, 1.024
Cr2677,267.716 {126},Y_3600,ppm, 1.012,.0058,.5722, 1.016, 1.007
Cu3247,324.754 {104},Y_3600,ppm, 1.045,.0002,.0213, 1.045, 1.045
Fe2404,240.488 {140},In2306,ppm, 11.74,1.425,12.13, 10.73, 12.75
K_7664,766.490 { 44},Y_3710,ppm, 11.64,1.265,10.87, 10.74, 12.53
K_7698,769.896 { 44},Y_3710,ppm, 11.87,1.331,11.22, 10.92, 12.81
Li6707,670.784 { 50},Y_3710,ppm, .5778,.0657,11.37, .5313, .6243
Mg2790,279.079 {121},Y_3710,ppm, 13.50,1.522,11.27, 12.42, 14.57
Mn2576,257.610 {131},Y_3600,ppm, 1.086,.0048,.4404, 1.090, 1.083
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.224,.1427,11.66, 1.123, 1.325
Mo2020,202.030 {467},Y_2243,ppm, 1.099,.0030,.2697, 1.102, 1.097
Na5895,589.592 { 57},Y_3710,ppm, 153.2,21.14,13.80, 138.2, 168.1
Na8183,818.326 { 41},Y_3710,ppm, 162.6,17.32,10.65, 150.4, 174.9
Ni2316,231.604 {445},In2306,ppm, 1.017,.0039,.3819, 1.014, 1.019
P_1782,178.284 {489},In2306,ppm, .0273,.0007,2.680, .0278, .0267
Pb2203,220.353 {453},In2306,ppm, 1.014,.0054,.5281, 1.010, 1.018
S_1820,182.034 {485},Y_2243,ppm, -61.85,.2640,.4268, -62.03, -61.66
Sb2068,206.833 {463},Y_2243,ppm, 1.049,.0006,.0528, 1.049, 1.049
Se1960,196.090 {472},Y_2243,ppm, 1.075,.0019,.1760, 1.077, 1.074
Si2516,251.611 {134},Y_3710,ppm, 1.821,.2206,12.11, 1.665, 1.977
Sn1899,189.989 {477},In2306,ppm, 1.047,.0012,.1100, 1.046, 1.047
Sr4215,421.552 { 80},Y_3710,ppm, .6374,.0734,11.52, .5855, .6894
Ti3349,334.904 {101},Y_3600,ppm, 1.049,.0051,.4856, 1.053, 1.046
Tl1908,190.856 {477},In2306,ppm, 1.045,.0009,.0894, 1.045, 1.046
V_2924,292.402 {115},Y_3600,ppm, 1.041,.0051,.4912, 1.045, 1.038
Zn2062,206.200 {463},In2306,ppm, 1.081,.0045,.4168, 1.077, 1.084

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 902.73,80.729,8.9428,959.81,845.64
In2306,230.606 {446},Cts/S, 11606.,13.884,.11963,11596.,11615.
Y_2243,224.306 {450},Cts/S, 19215.,74.792,.38924,19162.,19268.
Y_3600,360.073 { 94},Cts/S, 181460.,811.53,.44723,180880.,182030.
Y_3710,371.030 { 91},Cts/S, 46639.,4087.0,8.7630,49529.,43749.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61921-a-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:33:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0007,1320., .0005, -.0004
Al3082,308.215 {109},In2306,ppm, .1412,.0070,4.925, .1363, .1461
As1890,189.042 {478},Y_2243,ppm, .0025,.0002,9.250, .0023, .0026
B_2496,249.678 {135},Y_3710,ppm, .0262,.0006,2.166, .0266, .0258
```

```
Ba4554,455.403 { 74},Y_3710,ppm, .0044,.0002,3.989, .0045, .0042
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,27.54, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, 17.81,.4840,2.718, 18.15, 17.47
Ca3181,318.128 {106},In2306,ppm, 17.68,.3976,2.249, 17.96, 17.40
Cd2288,228.802 {447},Y_2243,ppm, .0004,.0005,128.1, .0000, .0008
Co2286,228.616 {447},In2306,ppm, .0013,.0012,86.18, .0005, .0022
Cr2677,267.716 {126},Y_3600,ppm, .0018,.0000,2.027, .0018, .0018
Cu3247,324.754 {104},Y_3600,ppm, .0070,.0002,2.490, .0069, .0071
Fe2404,240.488 {140},In2306,ppm, .3335,.0123,3.690, .3422, .3248
K_7664,766.490 { 44},Y_3710,ppm, .0736,.0022,3.056, .0720, .0752
K_7698,769.896 { 44},Y_3710,ppm, .0320,.0389,121.6, .0595, .0045
Li6707,670.784 { 50},Y_3710,ppm, .0018,.0000,2.149, .0018, .0019
Mg2790,279.079 {121},Y_3710,ppm, .8984,.0007,.0815, .8989, .8979
Mn2576,257.610 {131},Y_3600,ppm, .0660,.0037,5.549, .0686, .0635
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0632,.0013,2.116, .0642, .0623
Mo2020,202.030 {467},Y_2243,ppm, .0030,.0022,73.04, .0014, .0045
Na5895,589.592 { 57},Y_3710,ppm, 139.4,.7433,.5333, 138.8, 139.9
Na8183,818.326 { 41},Y_3710,ppm, 145.2,2.368,1.631, 146.9, 143.5
Ni2316,231.604 {445},In2306,ppm, .0035,.0016,44.12, .0024, .0047
P_1782,178.284 {489},In2306,ppm, .0008,.0005,65.12, .0004, .0011
Pb2203,220.353 {453},In2306,ppm, -.0004,.0018,481.2, -.0016, .0009
S_1820,182.034 {485},Y_2243,ppm, -10.60,.2067,1.950, -10.45, -10.75
Sb2068,206.833 {463},Y_2243,ppm, .0059,.0019,31.74, .0046, .0072
Se1960,196.090 {472},Y_2243,ppm, .0039,.0009,21.99, .0033, .0045
Si2516,251.611 {134},Y_3710,ppm, .3257,.0009,.2688, .3251, .3263
Sn1899,189.989 {477},In2306,ppm, .0016,.0014,91.00, .0006, .0025
Sr4215,421.552 { 80},Y_3710,ppm, .0705,.0012,1.769, .0713, .0696
Ti3349,334.904 {101},Y_3600,ppm, .0010,.0001,10.97, .0010, .0009
Tl1908,190.856 {477},In2306,ppm, .0064,.0065,101.5, .0018, .0110
V_2924,292.402 {115},Y_3600,ppm, .0001,.0002,211.3, .0002, .0000
Zn2062,206.200 {463},In2306,ppm, .0074,.0013,17.62, .0065, .0083

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1011.7,17.753,1.7548,999.13,1024.2
In2306,230.606 {446},Cts/S, 11579.,272.54,2.3538,11771.,11386.
Y_2243,224.306 {450},Cts/S, 19117.,453.50,2.3723,19437.,18796.
Y_3600,360.073 { 94},Cts/S, 176920.,9306.6,5.2604,170340.,183500.
Y_3710,371.030 { 91},Cts/S, 51296.,990.65,1.9312,50595.,51996.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61869-c-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:36:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0013,.0001,7.141, -.0014, -.0013
Al3082,308.215 {109},In2306,ppm, -.0026,.0009,35.29, -.0020, -.0033
As1890,189.042 {478},Y_2243,ppm, .0021,.0008,38.53, .0016, .0027
B_2496,249.678 {135},Y_3710,ppm, .0080,.0023,28.53, .0096, .0064
Ba4554,455.403 { 74},Y_3710,ppm, .1434,.0027,1.885, .1415, .1453
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,48.55, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 81.85,1.463,1.787, 80.81, 82.88
```

Ca3181,318.128 {106},In2306,ppm, 80.50,1.634,2.030, 79.34, 81.65
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,16.35, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0004,.0001,18.17, .0003, .0004
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0001,11.57, .0012, .0010
Cu3247,324.754 {104},Y_3600,ppm, .0004,.0002,38.09, .0005, .0003
Fe2404,240.488 {140},In2306,ppm, .0075,.0028,37.52, .0095, .0055
K_7664,766.490 { 44},Y_3710,ppm, .1119,.0084,7.508, .1059, .1178
K_7698,769.896 { 44},Y_3710,ppm, .1256,.0846,67.34, .0658, .1855
Li6707,670.784 { 50},Y_3710,ppm, .0030,.0001,4.021, .0029, .0031
Mg2790,279.079 {121},Y_3710,ppm, 1.386,.0296,2.132, 1.365, 1.407
Mn2576,257.610 {131},Y_3600,ppm, .0653,.0015,2.334, .0664, .0642
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0668,.0005,.7532, .0665, .0672
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0001,70.06, .0001, .0002
Na5895,589.592 { 57},Y_3710,ppm, 143.0,9.865,6.900, 136.0, 150.0
Na8183,818.326 { 41},Y_3710,ppm, 147.7,2.826,1.913, 145.7, 149.7
Ni2316,231.604 {445},In2306,ppm, .0002,.0003,116.4, .0000, .0004
P_1782,178.284 {489},In2306,ppm, .0251,.0009,3.622, .0257, .0244
Pb2203,220.353 {453},In2306,ppm, .0006,.0001,17.23, .0005, .0007
S_1820,182.034 {485},Y_2243,ppm, -8.925,.2828,3.168, -9.125, -8.725
Sb2068,206.833 {463},Y_2243,ppm, -.0020,.0015,74.94, -.0031, -.0009
Se1960,196.090 {472},Y_2243,ppm, .0012,.0019,160.3, -.0002, .0025
Si2516,251.611 {134},Y_3710,ppm, .2176,.0155,7.133, .2066, .2286
Sn1899,189.989 {477},In2306,ppm, .0012,.0007,55.80, .0007, .0017
Sr4215,421.552 { 80},Y_3710,ppm, .0905,.0018,1.956, .0892, .0917
Ti3349,334.904 {101},Y_3600,ppm, .0012,.0001,6.105, .0011, .0012
Tl1908,190.856 {477},In2306,ppm, .0018,.0017,92.78, .0006, .0030
V_2924,292.402 {115},Y_3600,ppm, .0014,.0002,17.20, .0015, .0012
Zn2062,206.200 {463},In2306,ppm, .0032,.0001,3.385, .0033, .0031

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 970.10,15.734,1.6219,981.23,958.98
In2306,230.606 {446},Cts/S, 11483.,60.412,.52611,11526.,11440.
Y_2243,224.306 {450},Cts/S, 19034.,76.078,.39971,19087.,18980.
Y_3600,360.073 { 94},Cts/S, 178320.,2861.3,1.6045,176300.,180350.
Y_3710,371.030 { 91},Cts/S, 49672.,741.82,1.4935,50196.,49147.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lb 600-89676/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:38:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0003,670.3, -.0002, .0003
Al3082,308.215 {109},In2306,ppm, .0024,.0022,94.70, .0008, .0039
As1890,189.042 {478},Y_2243,ppm, .0006,.0010,179.9, -.0002, .0013
B_2496,249.678 {135},Y_3710,ppm, .0047,.0017,36.31, .0059, .0035
Ba4554,455.403 { 74},Y_3710,ppm, .0006,.0000,6.801, .0006, .0006
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,197.9, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .1046,.0143,13.65, .1147, .0945
Ca3181,318.128 {106},In2306,ppm, .0683,.0171,24.98, .0803, .0562
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,36.65, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0000,25.56, .0001, .0001

```
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0001,42.70, .0002, .0003
Cu3247,324.754 {104},Y_3600,ppm, .0016,.0002,14.09, .0018, .0015
Fe2404,240.488 {140},In2306,ppm, .0101,.0005,5.204, .0104, .0097
K_7664,766.490 { 44},Y_3710,ppm, .0202,.0013,6.621, .0193, .0212
K_7698,769.896 { 44},Y_3710,ppm, .0064,.0335,521.1, .0301, -.0173
Li6707,670.784 { 50},Y_3710,ppm, -.0001,.0000,12.31, -.0001, -.0001
Mg2790,279.079 {121},Y_3710,ppm, .0069,.0047,67.38, .0102, .0036
Mn2576,257.610 {131},Y_3600,ppm, .0002,.0001,40.02, .0002, .0003
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0004,77.23, .0007, .0002
Mo2020,202.030 {467},Y_2243,ppm, -.0003,.0003,126.7, -.0005, .0000
Na5895,589.592 { 57},Y_3710,ppm, .5744,.0089,1.558, .5807, .5681
Na8183,818.326 { 41},Y_3710,ppm, .6578,.0388,5.905, .6853, .6304
Ni2316,231.604 {445},In2306,ppm, -.0001,.0001,93.78, .0000, -.0002
P_1782,178.284 {489},In2306,ppm, .0006,.0005,90.81, .0002, .0010
Pb2203,220.353 {453},In2306,ppm, .0007,.0003,38.14, .0005, .0009
S_1820,182.034 {485},Y_2243,ppm, -1.157,.2263,19.55, -.9974, -1.317
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0008,83.23, -.0004, -.0015
Se1960,196.090 {472},Y_2243,ppm, -.0003,.0014,527.2, -.0012, .0007
Si2516,251.611 {134},Y_3710,ppm, .0150,.0025,16.81, .0168, .0132
Sn1899,189.989 {477},In2306,ppm, .0009,.0007,77.88, .0014, .0004
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,281.7, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0003,.0003,111.5, .0004, .0001
Tl1908,190.856 {477},In2306,ppm, -.0001,.0009,693.7, -.0008, .0005
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0000,15.59, -.0001, -.0001
Zn2062,206.200 {463},In2306,ppm, .0019,.0001,4.363, .0019, .0020

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1016.5,14.988,1.4744,1027.1,1005.9
In2306,230.606 {446},Cts/S, 12024.,91.934,.76461,11959.,12089.
Y_2243,224.306 {450},Cts/S, 19778.,166.05,.83956,19660.,19895.
Y_3600,360.073 { 94},Cts/S, 193610.,4034.5,2.0838,196470.,190760.
Y_3710,371.030 { 91},Cts/S, 50893.,756.86,1.4872,51428.,50357.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61892-a-2-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:41:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0006,.0006,98.81, -.0010, -.0002
Al3082,308.215 {109},In2306,ppm, -.0109,.0051,46.86, -.0073, -.0145
As1890,189.042 {478},Y_2243,ppm, .0014,.0000,.7263, .0014, .0014
B_2496,249.678 {135},Y_3710,ppm, .0080,.0000,.5566, .0080, .0080
Ba4554,455.403 { 74},Y_3710,ppm, .1283,.0027,2.073, .1302, .1265
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,27.16, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 173.7,2.722,1.568, 175.6, 171.7
Ca3181,318.128 {106},In2306,ppm, 171.1,2.397,1.401, 172.8, 169.4
Cd2288,228.802 {447},Y_2243,ppm, .0006,.0000,6.930, .0006, .0006
Co2286,228.616 {447},In2306,ppm, .0014,.0000,1.497, .0014, .0014
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0001,8.778, .0012, .0011
Cu3247,324.754 {104},Y_3600,ppm, .0004,.0002,57.60, .0002, .0005
Fe2404,240.488 {140},In2306,ppm, .0098,.0003,2.583, .0100, .0096
```

K_7664,766.490 { 44},Y_3710,ppm, .1515,.0156,10.33, .1625, .1404
K_7698,769.896 { 44},Y_3710,ppm, .1408,.0709,50.35, .1909, .0907
Li6707,670.784 { 50},Y_3710,ppm, .0052,.0003,5.559, .0054, .0050
Mg2790,279.079 {121},Y_3710,ppm, 1.487,.0238,1.600, 1.504, 1.470
Mn2576,257.610 {131},Y_3600,ppm, .1508,.0010,.6395, .1514, .1501
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1573,.0028,1.761, .1592, .1553
Mo2020,202.030 {467},Y_2243,ppm, -.0007,.0006,84.64, -.0011, -.0003
Na5895,589.592 { 57},Y_3710,ppm, 2.448,.0485,1.980, 2.483, 2.414
Na8183,818.326 { 41},Y_3710,ppm, 2.498,.0344,1.379, 2.473, 2.522
Ni2316,231.604 {445},In2306,ppm, .0248,.0001,.3539, .0247, .0248
P_1782,178.284 {489},In2306,ppm, .0177,.0004,2.169, .0174, .0179
Pb2203,220.353 {453},In2306,ppm, -.0002,.0006,273.7, .0002, -.0006
S_1820,182.034 {485},Y_2243,ppm, -26.00,.1050,.4040, -26.07, -25.92
Sb2068,206.833 {463},Y_2243,ppm, -.0019,.0002,10.98, -.0020, -.0017
Se1960,196.090 {472},Y_2243,ppm, .0012,.0003,25.26, .0015, .0010
Si2516,251.611 {134},Y_3710,ppm, .3886,.0210,5.414, .4035, .3737
Sn1899,189.989 {477},In2306,ppm, -.0006,.0009,139.7, .0000, -.0012
Sr4215,421.552 { 80},Y_3710,ppm, .2383,.0048,1.994, .2416, .2349
Ti3349,334.904 {101},Y_3600,ppm, .0014,.0002,17.77, .0012, .0015
Tl1908,190.856 {477},In2306,ppm, .0000,.0001,162.4, .0001, .0000
V_2924,292.402 {115},Y_3600,ppm, .0004,.0001,13.94, .0004, .0005
Zn2062,206.200 {463},In2306,ppm, .0526,.0001,.2665, .0527, .0525

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 968.60,9.0928,.93875,962.17,975.03
In2306,230.606 {446},Cts/S, 11699.,20.386,.17426,11684.,11713.
Y_2243,224.306 {450},Cts/S, 19072.,15.214,.07977,19061.,19083.
Y_3600,360.073 { 94},Cts/S, 183210.,1097.8,.59920,182430.,183980.
Y_3710,371.030 { 91},Cts/S, 49593.,641.57,1.2937,49139.,50047.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:43:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2467,.0069,2.797, .2516, .2418
Al3082,308.215 {109},In2306,ppm, 2.420,.0758,3.132, 2.366, 2.473
As1890,189.042 {478},Y_2243,ppm, .5031,.0271,5.379, .5223, .4840
B_2496,249.678 {135},Y_3710,ppm, .4921,.0154,3.130, .4812, .5030
Ba4554,455.403 { 74},Y_3710,ppm, .4895,.0187,3.813, .4763, .5027
Be3130,313.042 {108},Y_3710,ppm, .4940,.0184,3.726, .4810, .5071
Ca3158,315.887 {107},In2306,ppm, 12.28,.2868,2.336, 12.08, 12.48
Ca3181,318.128 {106},In2306,ppm, 12.14,.2962,2.439, 11.93, 12.35
Cd2288,228.802 {447},Y_2243,ppm, .4961,.0270,5.440, .5152, .4770
Co2286,228.616 {447},In2306,ppm, .4966,.0257,5.166, .5147, .4784
Cr2677,267.716 {126},Y_3600,ppm, .4866,.0193,3.964, .5003, .4730
Cu3247,324.754 {104},Y_3600,ppm, .4886,.0152,3.105, .4993, .4779
Fe2404,240.488 {140},In2306,ppm, 2.438,.0713,2.925, 2.387, 2.488
K_7664,766.490 { 44},Y_3710,ppm, 12.35,.3238,2.621, 12.12, 12.58
K_7698,769.896 { 44},Y_3710,ppm, 12.42,.3824,3.080, 12.15, 12.69
Li6707,670.784 { 50},Y_3710,ppm, .4984,.0166,3.329, .4866, .5101

```
Mg2790,279.079 {121},Y_3710,ppm, 4.834,.1434,2.967, 4.732, 4.935
Mn2576,257.610 {131},Y_3600,ppm, .4849,.0140,2.893, .4948, .4749
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5013,.0295,5.890, .4804, .5222
Mo2020,202.030 {467},Y_2243,ppm, .5178,.0258,4.991, .5360, .4995
Na5895,589.592 { 57},Y_3710,ppm, 12.41,.3968,3.198, 12.13, 12.69
Na8183,818.326 { 41},Y_3710,ppm, 12.24,.4480,3.659, 11.93, 12.56
Ni2316,231.604 {445},In2306,ppm, .4962,.0253,5.102, .5141, .4783
P_1782,178.284 {489},In2306,ppm, .5010,.0263,5.255, .5196, .4824
Pb2203,220.353 {453},In2306,ppm, .4905,.0252,5.132, .5083, .4727
S_1820,182.034 {485},Y_2243,ppm, -210.0,10.13,4.825, -217.1, -202.8
Sb2068,206.833 {463},Y_2243,ppm, .5035,.0287,5.706, .5238, .4832
Se1960,196.090 {472},Y_2243,ppm, .5029,.0233,4.626, .5193, .4864
Si2516,251.611 {134},Y_3710,ppm, .9611,.0323,3.364, .9382, .9839
Sn1899,189.989 {477},In2306,ppm, .5086,.0269,5.282, .5276, .4896
Sr4215,421.552 { 80},Y_3710,ppm, .2476,.0090,3.651, .2412, .2540
Ti3349,334.904 {101},Y_3600,ppm, .4922,.0137,2.786, .5019, .4825
Tl1908,190.856 {477},In2306,ppm, .4983,.0265,5.309, .5170, .4796
V_2924,292.402 {115},Y_3600,ppm, .4934,.0153,3.097, .5042, .4826
Zn2062,206.200 {463},In2306,ppm, .4903,.0254,5.171, .5082, .4723

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1006.1,4.9453,.49153,1009.6,1002.6
In2306,230.606 {446},Cts/S, 11823.,500.80,4.2357,11469.,12177.
Y_2243,224.306 {450},Cts/S, 19473.,853.91,4.3851,18869.,20077.
Y_3600,360.073 { 94},Cts/S, 189570.,4536.4,2.3929,186370.,192780.
Y_3710,371.030 { 91},Cts/S, 50376.,669.95,1.3299,50850.,49902.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:45:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0055,.0002,3.962, .0056, .0053
Al3082,308.215 {109},In2306,ppm, .1148,.0534,46.53, .0770, .1525
As1890,189.042 {478},Y_2243,ppm, .0112,.0005,4.667, .0116, .0108
B_2496,249.678 {135},Y_3710,ppm, .0143,.0058,40.72, .0102, .0184
Ba4554,455.403 { 74},Y_3710,ppm, .0126,.0037,29.51, .0099, .0152
Be3130,313.042 {108},Y_3710,ppm, .0062,.0017,27.48, .0050, .0074
Ca3158,315.887 {107},In2306,ppm, .1269,.0148,11.68, .1164, .1374
Ca3181,318.128 {106},In2306,ppm, .1181,.0510,43.22, .0820, .1542
Cd2288,228.802 {447},Y_2243,ppm, .0052,.0001,2.375, .0051, .0053
Co2286,228.616 {447},In2306,ppm, .0103,.0002,1.726, .0101, .0104
Cr2677,267.716 {126},Y_3600,ppm, .0102,.0000,.3417, .0102, .0102
Cu3247,324.754 {104},Y_3600,ppm, .0105,.0000,.3190, .0106, .0105
Fe2404,240.488 {140},In2306,ppm, .1234,.0301,24.40, .1021, .1447
K_7664,766.490 { 44},Y_3710,ppm, .7507,.1725,22.97, .6287, .8726
K_7698,769.896 { 44},Y_3710,ppm, .7957,.3000,37.71, .5835, 1.008
Li6707,670.784 { 50},Y_3710,ppm, .0128,.0044,34.24, .0097, .0158
Mg2790,279.079 {121},Y_3710,ppm, .1163,.0437,37.62, .0853, .1472
Mn2576,257.610 {131},Y_3600,ppm, .0101,.0003,2.851, .0103, .0099
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0121,.0032,26.91, .0098, .0144
```

```
Mo2020,202.030 {467},Y_2243,ppm, .0117,.0003,2.407, .0115, .0119
Na5895,589.592 { 57},Y_3710,ppm, .7327,.1937,26.44, .5957, .8697
Na8183,818.326 { 41},Y_3710,ppm, .7182,.0490,6.825, .6835, .7528
Ni2316,231.604 {445},In2306,ppm, .0102,.0004,3.605, .0099, .0105
P_1782,178.284 {489},In2306,ppm, .0090,.0001,1.600, .0089, .0091
Pb2203,220.353 {453},In2306,ppm, .0105,.0009,8.493, .0111, .0099
S_1820,182.034 {485},Y_2243,ppm, .2731,.3238,118.6, .0441, .5021
Sb2068,206.833 {463},Y_2243,ppm, .0117,.0002,1.561, .0116, .0119
Se1960,196.090 {472},Y_2243,ppm, .0100,.0001,.7339, .0099, .0100
Si2516,251.611 {134},Y_3710,ppm, .0194,.0200,103.6, .0052, .0335
Sn1899,189.989 {477},In2306,ppm, .0112,.0004,3.518, .0109, .0114
Sr4215,421.552 { 80},Y_3710,ppm, .0062,.0017,27.24, .0050, .0074
Ti3349,334.904 {101},Y_3600,ppm, .0102,.0004,3.963, .0105, .0099
Tl1908,190.856 {477},In2306,ppm, .0107,.0018,16.84, .0094, .0120
V_2924,292.402 {115},Y_3600,ppm, .0099,.0001,.6803, .0099, .0098
Zn2062,206.200 {463},In2306,ppm, .0104,.0001,1.185, .0103, .0105

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 898.31,189.78,21.126,1032.5,764.12
In2306,230.606 {446},Cts/S, 11934.,58.969,.49411,11976.,11893.
Y_2243,224.306 {450},Cts/S, 19763.,83.285,.42142,19822.,19704.
Y_3600,360.073 { 94},Cts/S, 193750.,3463.2,1.7875,191300.,196200.
Y_3710,371.030 { 91},Cts/S, 44552.,9910.6,22.245,51560.,37544.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:48:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0006,238.6, .0002, -.0007
Al3082,308.215 {109},In2306,ppm, -.0069,.0035,50.42, -.0044, -.0093
As1890,189.042 {478},Y_2243,ppm, -.0002,.0007,351.8, -.0007, .0003
B_2496,249.678 {135},Y_3710,ppm, -.0014,.0019,135.9, -.0001, -.0028
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0002,1200., -.0001, .0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,8.169, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0059,.0027,45.80, .0077, .0040
Ca3181,318.128 {106},In2306,ppm, -.0223,.0067,29.94, -.0176, -.0271
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,461.5, .0001, -.0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,138.2, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0001,39.83, .0004, .0002
Cu3247,324.754 {104},Y_3600,ppm, .0003,.0004,129.2, .0000, .0005
Fe2404,240.488 {140},In2306,ppm, .0007,.0002,33.36, .0006, .0009
K_7664,766.490 { 44},Y_3710,ppm, -.0020,.0029,145.7, -.0041, .0001
K_7698,769.896 { 44},Y_3710,ppm, -.0536,.0180,33.51, -.0663, -.0409
Li6707,670.784 { 50},Y_3710,ppm, -.0009,.0000,1.273, -.0009, -.0009
Mg2790,279.079 {121},Y_3710,ppm, -.0010,.0059,609.7, -.0051, .0032
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,71.94, .0000, -.0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0001,.0005,366.8, -.0002, .0005
Mo2020,202.030 {467},Y_2243,ppm, -.0002,.0000,27.09, -.0001, -.0002
Na5895,589.592 { 57},Y_3710,ppm, -.0124,.0042,33.77, -.0094, -.0154
Na8183,818.326 { 41},Y_3710,ppm, .1030,.0356,34.60, .0778, .1282
```

Ni2316,231.604 {445},In2306,ppm, .0000,.0002,470.6, .0001, -.0002
P_1782,178.284 {489},In2306,ppm, -.0012,.0002,18.67, -.0010, -.0013
Pb2203,220.353 {453},In2306,ppm, -.0002,.0002,102.1, .0000, -.0003
S_1820,182.034 {485},Y_2243,ppm, .0166,.0342,206.6, -.0076, .0407
Sb2068,206.833 {463},Y_2243,ppm, -.0004,.0006,126.7, -.0009, .0000
Se1960,196.090 {472},Y_2243,ppm, -.0004,.0009,239.6, .0003, -.0010
Si2516,251.611 {134},Y_3710,ppm, -.0018,.0020,113.9, -.0003, -.0032
Sn1899,189.989 {477},In2306,ppm, .0000,.0002,911.4, -.0001, .0002
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,267.4, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0001,736.4, .0001, -.0001
Tl1908,190.856 {477},In2306,ppm, -.0006,.0007,113.8, -.0011, -.0001
V_2924,292.402 {115},Y_3600,ppm, -.0007,.0001,19.18, -.0006, -.0008
Zn2062,206.200 {463},In2306,ppm, .0000,.0000,210.7, .0000, .0000

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1028.4,14.261,1.3867,1018.3,1038.5
In2306,230.606 {446},Cts/S, 12022.,29.528,.24561,12043.,12001.
Y_2243,224.306 {450},Cts/S, 19852.,85.348,.42992,19912.,19792.
Y_3600,360.073 { 94},Cts/S, 194370.,22.810,.01173,194360.,194390.
Y_3710,371.030 { 91},Cts/S, 50881.,791.35,1.5553,50322.,51441.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61892-a-4-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:50:48
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0004,.0004,88.23, -.0007, -.0002
Al3082,308.215 {109},In2306,ppm, .2010,.0021,1.041, .2025, .1995
As1890,189.042 {478},Y_2243,ppm, .0022,.0013,59.89, .0013, .0031
B_2496,249.678 {135},Y_3710,ppm, .0143,.0006,4.045, .0139, .0147
Ba4554,455.403 { 74},Y_3710,ppm, .0916,.0010,1.092, .0909, .0923
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,15.27, .0002, .0002
Ca3158,315.887 {107},In2306,ppm, 106.4,2.417,2.270, 104.7, 108.1
Ca3181,318.128 {106},In2306,ppm, 104.8,1.849,1.765, 103.5, 106.1
Cd2288,228.802 {447},Y_2243,ppm, .0018,.0001,3.220, .0018, .0019
Co2286,228.616 {447},In2306,ppm, .0043,.0001,1.938, .0042, .0043
Cr2677,267.716 {126},Y_3600,ppm, .0035,.0002,5.123, .0037, .0034
Cu3247,324.754 {104},Y_3600,ppm, .0090,.0004,4.675, .0093, .0087
Fe2404,240.488 {140},In2306,ppm, 1.641,.0482,2.938, 1.607, 1.675
K_7664,766.490 { 44},Y_3710,ppm, .5758,.0048,.8329, .5792, .5724
K_7698,769.896 { 44},Y_3710,ppm, .5293,.0540,10.20, .4912, .5675
Li6707,670.784 { 50},Y_3710,ppm, .0031,.0014,43.96, .0041, .0022
Mg2790,279.079 {121},Y_3710,ppm, 1.921,.0239,1.245, 1.905, 1.938
Mn2576,257.610 {131},Y_3600,ppm, .1716,.0042,2.454, .1746, .1686
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1687,.0033,1.932, .1664, .1710
Mo2020,202.030 {467},Y_2243,ppm, -.0008,.0000,3.780, -.0008, -.0007
Na5895,589.592 { 57},Y_3710,ppm, 1.601,.0064,.4026, 1.596, 1.606
Na8183,818.326 { 41},Y_3710,ppm, 1.617,.0629,3.887, 1.662, 1.573
Ni2316,231.604 {445},In2306,ppm, .0233,.0004,1.730, .0230, .0236
P_1782,178.284 {489},In2306,ppm, .0019,.0012,61.88, .0011, .0027
Pb2203,220.353 {453},In2306,ppm, .0011,.0010,88.71, .0004, .0018

```
S_1820,182.034 {485},Y_2243,ppm, -262.0,5.057,1.930, -258.4, -265.6
Sb2068,206.833 {463},Y_2243,ppm, -.0025,.0006,23.17, -.0021, -.0030
Se1960,196.090 {472},Y_2243,ppm, .0011,.0011,99.50, .0003, .0018
Si2516,251.611 {134},Y_3710,ppm, 4.482,.0639,1.426, 4.437, 4.527
Sn1899,189.989 {477},In2306,ppm, .0006,.0004,68.08, .0008, .0003
Sr4215,421.552 { 80},Y_3710,ppm, .1140,.0019,1.691, .1126, .1154
Ti3349,334.904 {101},Y_3600,ppm, .0007,.0003,42.99, .0009, .0005
Tl1908,190.856 {477},In2306,ppm, .0000,.0000,95.38, .0000, .0001
V_2924,292.402 {115},Y_3600,ppm, .0000,.0001,208.1, .0000, .0001
Zn2062,206.200 {463},In2306,ppm, .6042,.0051,.8494, .6006, .6078

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1012.8,2.8744,.28382,1014.8,1010.7
In2306,230.606 {446},Cts/S, 11776.,101.71,.86378,11847.,11704.
Y_2243,224.306 {450},Cts/S, 19233.,148.50,.77214,19338.,19128.
Y_3600,360.073 { 94},Cts/S, 184850.,3342.9,1.8085,182480.,187210.
Y_3710,371.030 { 91},Cts/S, 51728.,198.19,.38314,51587.,51868.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61892-a-5-c
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:53:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0009,.0002,20.75, -.0007, -.0010
Al3082,308.215 {109},In2306,ppm, .2686,.0207,7.694, .2540, .2832
As1890,189.042 {478},Y_2243,ppm, .0009,.0002,21.33, .0008, .0010
B_2496,249.678 {135},Y_3710,ppm, .0102,.0054,52.83, .0064, .0140
Ba4554,455.403 { 74},Y_3710,ppm, .0907,.0001,.1462, .0907, .0908
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,11.17, .0002, .0003
Ca3158,315.887 {107},In2306,ppm, 102.7,1.315,1.281, 101.7, 103.6
Ca3181,318.128 {106},In2306,ppm, 101.3,1.010,.9973, 100.6, 102.0
Cd2288,228.802 {447},Y_2243,ppm, .0006,.0001,8.851, .0006, .0007
Co2286,228.616 {447},In2306,ppm, .0027,.0000,1.627, .0028, .0027
Cr2677,267.716 {126},Y_3600,ppm, .0042,.0003,7.454, .0040, .0044
Cu3247,324.754 {104},Y_3600,ppm, .0023,.0001,2.987, .0023, .0022
Fe2404,240.488 {140},In2306,ppm, 1.850,.0242,1.307, 1.833, 1.867
K_7664,766.490 { 44},Y_3710,ppm, .8512,.0259,3.048, .8328, .8695
K_7698,769.896 { 44},Y_3710,ppm, .7337,.0097,1.326, .7268, .7406
Li6707,670.784 { 50},Y_3710,ppm, .0041,.0002,6.069, .0043, .0039
Mg2790,279.079 {121},Y_3710,ppm, 1.612,.0455,2.824, 1.580, 1.645
Mn2576,257.610 {131},Y_3600,ppm, .1395,.0014,1.008, .1385, .1404
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1373,.0002,.1491, .1371, .1374
Mo2020,202.030 {467},Y_2243,ppm, -.0007,.0005,70.09, -.0004, -.0010
Na5895,589.592 { 57},Y_3710,ppm, 2.189,.0056,.2578, 2.193, 2.185
Na8183,818.326 { 41},Y_3710,ppm, 2.221,.1101,4.955, 2.299, 2.144
Ni2316,231.604 {445},In2306,ppm, .0124,.0000,.1728, .0124, .0124
P_1782,178.284 {489},In2306,ppm, .0009,.0003,29.96, .0011, .0007
Pb2203,220.353 {453},In2306,ppm, .0011,.0011,107.2, .0003, .0019
S_1820,182.034 {485},Y_2243,ppm, -331.1,3.046,.9199, -329.0, -333.3
Sb2068,206.833 {463},Y_2243,ppm, -.0021,.0007,35.53, -.0015, -.0026
Se1960,196.090 {472},Y_2243,ppm, .0021,.0008,38.40, .0015, .0027
```

```
Si2516,251.611 {134},Y_3710,ppm, 5.004,.0363,.7249, 4.978, 5.029
Sn1899,189.989 {477},In2306,ppm, .0003,.0013,408.9, .0012, -.0006
Sr4215,421.552 { 80},Y_3710,ppm, .1208,.0006,.4620, .1204, .1212
Ti3349,334.904 {101},Y_3600,ppm, .0010,.0001,11.80, .0009, .0011
Tl1908,190.856 {477},In2306,ppm, .0003,.0008,284.3, .0009, -.0003
V_2924,292.402 {115},Y_3600,ppm, .0002,.0004,183.2, .0005, -.0001
Zn2062,206.200 {463},In2306,ppm, .1628,.0008,.4843, .1622, .1633

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1022.4,2.1907,.21427,1020.8,1023.9
In2306,230.606 {446},Cts/S, 11930.,89.750,.75230,11993.,11867.
Y_2243,224.306 {450},Cts/S, 19385.,182.37,.94077,19514.,19256.
Y_3600,360.073 { 94},Cts/S, 185290.,1857.5,1.0025,186600.,183980.
Y_3710,371.030 { 91},Cts/S, 51831.,429.61,.82887,51527.,52135.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61722-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:55:32
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0019,.0007,35.89, -.0014, -.0023
Al3082,308.215 {109},In2306,ppm, -.0064,.0124,192.5, .0023, -.0152
As1890,189.042 {478},Y_2243,ppm, 4.605,.1001,2.173, 4.676, 4.534
B_2496,249.678 {135},Y_3710,ppm, .0356,.0028,7.805, .0336, .0375
Ba4554,455.403 { 74},Y_3710,ppm, .0042,.0001,2.601, .0041, .0043
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,437.4, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 107.2,1.711,1.596, 106.0, 108.4
Ca3181,318.128 {106},In2306,ppm, 105.3,1.513,1.437, 104.2, 106.3
Cd2288,228.802 {447},Y_2243,ppm, .0067,.0001,.9152, .0067, .0067
Co2286,228.616 {447},In2306,ppm, -.0001,.0000,24.04, -.0001, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0013,.0003,20.09, .0014, .0011
Cu3247,324.754 {104},Y_3600,ppm, -.0003,.0000,8.913, -.0003, -.0003
Fe2404,240.488 {140},In2306,ppm, .0072,.0005,6.834, .0076, .0069
K_7664,766.490 { 44},Y_3710,ppm, .3371,.0170,5.053, .3491, .3250
K_7698,769.896 { 44},Y_3710,ppm, .3106,.0007,.2149, .3101, .3110
Li6707,670.784 { 50},Y_3710,ppm, .0034,.0001,3.227, .0034, .0035
Mg2790,279.079 {121},Y_3710,ppm, 20.66,.3387,1.639, 20.42, 20.90
Mn2576,257.610 {131},Y_3600,ppm, .0080,.0001,1.417, .0081, .0079
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0079,.0006,7.905, .0083, .0074
Mo2020,202.030 {467},Y_2243,ppm, .0000,.0001,430.0, .0000, .0001
Na5895,589.592 { 57},Y_3710,ppm, 1.685,.0246,1.461, 1.668, 1.703
Na8183,818.326 { 41},Y_3710,ppm, 1.655,.0827,4.998, 1.714, 1.597
Ni2316,231.604 {445},In2306,ppm, .0046,.0002,3.381, .0047, .0045
P_1782,178.284 {489},In2306,ppm, .2674,.0045,1.696, .2706, .2642
Pb2203,220.353 {453},In2306,ppm, .0004,.0005,132.6, .0000, .0007
S_1820,182.034 {485},Y_2243,ppm, -1370.,25.52,1.863, -1388., -1352.
Sb2068,206.833 {463},Y_2243,ppm, -.0018,.0007,37.91, -.0013, -.0023
Se1960,196.090 {472},Y_2243,ppm, .0012,.0001,5.496, .0012, .0013
Si2516,251.611 {134},Y_3710,ppm, 3.851,.0431,1.120, 3.821, 3.882
Sn1899,189.989 {477},In2306,ppm, .0000,.0001,132.0, .0000, .0001
Sr4215,421.552 { 80},Y_3710,ppm, .0643,.0013,2.001, .0634, .0652
```

Ti3349,334.904 {101},Y_3600,ppm, .0010,.0002,19.68, .0011, .0009
Tl1908,190.856 {477},In2306,ppm, -.0002,.0006,262.7, .0002, -.0007
V_2924,292.402 {115},Y_3600,ppm, -.0004,.0001,35.61, -.0005, -.0003
Zn2062,206.200 {463},In2306,ppm, .0019,.0001,3.923, .0018, .0019

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1004.8,8.1234,.80845,999.07,1010.6
In2306,230.606 {446},Cts/S, 11762.,208.07,1.7690,11615.,11910.
Y_2243,224.306 {450},Cts/S, 19118.,333.11,1.7424,18883.,19354.
Y_3600,360.073 { 94},Cts/S, 182800.,161.19,.08818,182920.,182690.
Y_3710,371.030 { 91},Cts/S, 50923.,392.43,.77063,50646.,51201.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61722-a-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 11:57:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5185,.0135,2.599, .5280, .5090
Al3082,308.215 {109},In2306,ppm, 10.58,.2744,2.594, 10.38, 10.77
As1890,189.042 {478},Y_2243,ppm, 5.745,.1156,2.012, 5.663, 5.827
B_2496,249.678 {135},Y_3710,ppm, 1.054,.0337,3.192, 1.030, 1.078
Ba4554,455.403 { 74},Y_3710,ppm, 1.045,.0308,2.950, 1.023, 1.066
Be3130,313.042 {108},Y_3710,ppm, .5233,.0142,2.723, .5132, .5334
Ca3158,315.887 {107},In2306,ppm, 122.2,2.583,2.113, 120.4, 124.0
Ca3181,318.128 {106},In2306,ppm, 119.8,2.722,2.273, 117.8, 121.7
Cd2288,228.802 {447},Y_2243,ppm, .5262,.0105,1.992, .5188, .5336
Co2286,228.616 {447},In2306,ppm, 1.005,.0168,1.668, .9929, 1.017
Cr2677,267.716 {126},Y_3600,ppm, .9678,.0230,2.375, .9841, .9515
Cu3247,324.754 {104},Y_3600,ppm, 1.015,.0303,2.983, 1.037, .9941
Fe2404,240.488 {140},In2306,ppm, 10.29,.2342,2.277, 10.12, 10.45
K_7664,766.490 { 44},Y_3710,ppm, 10.73,.1892,1.763, 10.60, 10.86
K_7698,769.896 { 44},Y_3710,ppm, 10.90,.2166,1.988, 10.74, 11.05
Li6707,670.784 { 50},Y_3710,ppm, .5351,.0151,2.828, .5244, .5458
Mg2790,279.079 {121},Y_3710,ppm, 31.20,.7813,2.504, 30.65, 31.75
Mn2576,257.610 {131},Y_3600,ppm, .9920,.0241,2.431, 1.009, .9750
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.036,.0208,2.003, 1.021, 1.051
Mo2020,202.030 {467},Y_2243,ppm, 1.093,.0218,1.998, 1.077, 1.108
Na5895,589.592 { 57},Y_3710,ppm, 12.28,.2761,2.249, 12.08, 12.47
Na8183,818.326 { 41},Y_3710,ppm, 11.90,.3738,3.140, 11.64, 12.17
Ni2316,231.604 {445},In2306,ppm, 1.007,.0177,1.753, .9942, 1.019
P_1782,178.284 {489},In2306,ppm, .2763,.0048,1.727, .2729, .2796
Pb2203,220.353 {453},In2306,ppm, 1.006,.0160,1.588, .9947, 1.017
S_1820,182.034 {485},Y_2243,ppm, -1400.,27.43,1.959, -1381., -1420.
Sb2068,206.833 {463},Y_2243,ppm, 1.059,.0229,2.163, 1.042, 1.075
Se1960,196.090 {472},Y_2243,ppm, 1.068,.0220,2.056, 1.053, 1.084
Si2516,251.611 {134},Y_3710,ppm, 4.944,.1078,2.181, 4.868, 5.020
Sn1899,189.989 {477},In2306,ppm, 1.047,.0195,1.863, 1.033, 1.060
Sr4215,421.552 { 80},Y_3710,ppm, .5901,.0167,2.837, .5783, .6020
Ti3349,334.904 {101},Y_3600,ppm, 1.007,.0235,2.330, 1.024, .9909
Tl1908,190.856 {477},In2306,ppm, 1.040,.0179,1.721, 1.027, 1.052
V_2924,292.402 {115},Y_3600,ppm, 1.002,.0229,2.282, 1.018, .9859

Zn2062,206.200 {463},In2306,ppm, .9713,.0148,1.527, .9608, .9818

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 965.75,4.3318,.44854,968.81,962.69
In2306,230.606 {446},Cts/S, 11392.,153.44,1.3470,11500.,11283.
Y_2243,224.306 {450},Cts/S, 18730.,312.12,1.6664,18951.,18509.
Y_3600,360.073 { 94},Cts/S, 185360.,3489.2,1.8824,182900.,187830.
Y_3710,371.030 { 91},Cts/S, 49706.,389.02,.78265,49981.,49431.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61921-a-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:00:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0008,193.2, .0010, -.0002
Al3082,308.215 {109},In2306,ppm, .0010,.0001,13.34, .0011, .0009
As1890,189.042 {478},Y_2243,ppm, .0029,.0007,24.50, .0024, .0034
B_2496,249.678 {135},Y_3710,ppm, .0164,.0028,17.08, .0184, .0144
Ba4554,455.403 { 74},Y_3710,ppm, .0191,.0007,3.592, .0196, .0186
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,83.52, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 171.8,5.093,2.964, 175.4, 168.2
Ca3181,318.128 {106},In2306,ppm, 168.2,4.946,2.940, 171.7, 164.7
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0002,82.58, .0001, .0003
Co2286,228.616 {447},In2306,ppm, .0019,.0005,25.00, .0015, .0022
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0001,11.38, .0010, .0012
Cu3247,324.754 {104},Y_3600,ppm, .0034,.0002,5.758, .0035, .0032
Fe2404,240.488 {140},In2306,ppm, .0827,.0032,3.853, .0849, .0804
K_7664,766.490 { 44},Y_3710,ppm, .2640,.0078,2.965, .2695, .2584
K_7698,769.896 { 44},Y_3710,ppm, .2655,.0217,8.188, .2809, .2501
Li6707,670.784 { 50},Y_3710,ppm, .0060,.0004,6.287, .0063, .0058
Mg2790,279.079 {121},Y_3710,ppm, 4.716,.1789,3.794, 4.842, 4.589
Mn2576,257.610 {131},Y_3600,ppm, .1986,.0007,.3339, .1991, .1981
Mn2576-2,257.610 {131}2,Y_3710,ppm, .2081,.0082,3.945, .2139, .2023
Mo2020,202.030 {467},Y_2243,ppm, .0099,.0014,13.64, .0089, .0109
Na5895,589.592 { 57},Y_3710,ppm, 1.856,.0644,3.469, 1.902, 1.811
Na8183,818.326 { 41},Y_3710,ppm, 1.825,.2138,11.72, 1.976, 1.674
Ni2316,231.604 {445},In2306,ppm, .0067,.0001,1.954, .0066, .0068
P_1782,178.284 {489},In2306,ppm, .0022,.0004,18.06, .0025, .0019
Pb2203,220.353 {453},In2306,ppm, -.0008,.0012,150.2, -.0016, .0000
S_1820,182.034 {485},Y_2243,ppm, -160.6,1.587,.9881, -161.7, -159.5
Sb2068,206.833 {463},Y_2243,ppm, .0029,.0008,28.34, .0023, .0035
Se1960,196.090 {472},Y_2243,ppm, .0012,.0011,89.91, .0020, .0004
Si2516,251.611 {134},Y_3710,ppm, .5188,.0200,3.858, .5329, .5046
Sn1899,189.989 {477},In2306,ppm, .0010,.0004,39.75, .0007, .0013
Sr4215,421.552 { 80},Y_3710,ppm, .8963,.0324,3.614, .9192, .8734
Ti3349,334.904 {101},Y_3600,ppm, .0016,.0004,24.27, .0013, .0019
Tl1908,190.856 {477},In2306,ppm, .0038,.0028,73.95, .0018, .0058
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0001,63.63, -.0001, -.0002
Zn2062,206.200 {463},In2306,ppm, .1042,.0008,.7774, .1048, .1036

[Internal Standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 980.18,25.022,2.5528,962.49,997.88
In2306,230.606 {446},Cts/S, 11674.,66.615,.57062,11627.,11721.
Y_2243,224.306 {450},Cts/S, 18975.,66.529,.35062,18928.,19022.
Y_3600,360.073 { 94},Cts/S, 184930.,1054.9,.57045,185680.,184180.
Y_3710,371.030 { 91},Cts/S, 49980.,1410.8,2.8228,48982.,50977.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=PDS 600-61910-b-1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:02:23
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .4876,.0177,3.640, .5002, .4751
Al3082,308.215 {109},In2306,ppm, 10.15,.1747,1.722, 10.02, 10.27
As1890,189.042 {478},Y_2243,ppm, 1.032,.0864,8.365, .9713, 1.093
B_2496,249.678 {135},Y_3710,ppm, 1.040,.0084,.8033, 1.034, 1.046
Ba4554,455.403 { 74},Y_3710,ppm, 1.084,.0039,.3640, 1.081, 1.087
Be3130,313.042 {108},Y_3710,ppm, .5009,.0028,.5528, .4989, .5029
Ca3158,315.887 {107},In2306,ppm, 21.12,.2711,1.284, 20.92, 21.31
Ca3181,318.128 {106},In2306,ppm, 20.90,.2146,1.027, 20.75, 21.05
Cd2288,228.802 {447},Y_2243,ppm, .5016,.0415,8.264, .4723, .5309
Co2286,228.616 {447},In2306,ppm, .9757,.0815,8.357, .9180, 1.033
Cr2677,267.716 {126},Y_3600,ppm, .9521,.0493,5.175, .9869, .9172
Cu3247,324.754 {104},Y_3600,ppm, .9786,.0440,4.495, 1.010, .9475
Fe2404,240.488 {140},In2306,ppm, 9.982,.1677,1.680, 9.863, 10.10
K_7664,766.490 { 44},Y_3710,ppm, 10.12,.0043,.0427, 10.12, 10.12
K_7698,769.896 { 44},Y_3710,ppm, 10.25,.0256,.2501, 10.23, 10.27
Li6707,670.784 { 50},Y_3710,ppm, 1.012,.0026,.2537, 1.010, 1.014
Mg2790,279.079 {121},Y_3710,ppm, 11.71,.0583,.4980, 11.67, 11.75
Mn2576,257.610 {131},Y_3600,ppm, 1.012,.0407,4.019, 1.040, .9829
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.063,.0057,.5369, 1.059, 1.067
Mo2020,202.030 {467},Y_2243,ppm, 1.021,.0843,8.256, .9610, 1.080
Na5895,589.592 { 57},Y_3710,ppm, 143.5,6.496,4.527, 138.9, 148.1
Na8183,818.326 { 41},Y_3710,ppm, 147.3,.4181,.2839, 147.0, 147.6
Ni2316,231.604 {445},In2306,ppm, .9804,.0805,8.213, .9235, 1.037
P_1782,178.284 {489},In2306,ppm, 1.055,.0916,8.676, .9906, 1.120
Pb2203,220.353 {453},In2306,ppm, .9911,.0855,8.623, .9306, 1.052
S_1820,182.034 {485},Y_2243,ppm, -62.19,4.501,7.237, -59.01, -65.37
Sb2068,206.833 {463},Y_2243,ppm, 1.002,.0824,8.229, .9433, 1.060
Se1960,196.090 {472},Y_2243,ppm, 1.036,.0841,8.124, .9762, 1.095
Si2516,251.611 {134},Y_3710,ppm, 1.612,.0266,1.653, 1.593, 1.631
Sn1899,189.989 {477},In2306,ppm, .9925,.0829,8.350, .9339, 1.051
Sr4215,421.552 { 80},Y_3710,ppm, .5507,.0025,.4544, .5489, .5525
Ti3349,334.904 {101},Y_3600,ppm, .9733,.0443,4.550, 1.005, .9420
Tl1908,190.856 {477},In2306,ppm, 1.000,.0773,7.730, .9455, 1.055
V_2924,292.402 {115},Y_3600,ppm, .9707,.0449,4.621, 1.002, .9390
Zn2062,206.200 {463},In2306,ppm, 1.049,.0880,8.388, .9866, 1.111

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 986.86,7.6545,.77564,992.28,981.45
In2306,230.606 {446},Cts/S, 11569.,770.06,6.6561,12114.,11025.

Y_2243,224.306 {450},Cts/S, 19171.,1281.9,6.6863,20078.,18265.
Y_3600,360.073 { 94},Cts/S, 186110.,6777.7,3.6417,181320.,190910.
Y_3710,371.030 { 91},Cts/S, 50388.,55.597,.11034,50427.,50349.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=SD 600-61910-b-1-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:04:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0005,.0008,170.5, -.0001, .0010
Al3082,308.215 {109},In2306,ppm, -.0011,.0084,734.6, -.0071, .0048
As1890,189.042 {478},Y_2243,ppm, .0007,.0009,120.2, .0001, .0014
B_2496,249.678 {135},Y_3710,ppm, .0106,.0006,6.036, .0111, .0102
Ba4554,455.403 { 74},Y_3710,ppm, .0137,.0001,.8427, .0138, .0137
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,5.728, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 2.140,.0233,1.086, 2.157, 2.124
Ca3181,318.128 {106},In2306,ppm, 2.069,.0189,.9133, 2.082, 2.055
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0003,121.4, .0000, .0005
Co2286,228.616 {447},In2306,ppm, .0005,.0006,131.6, .0000, .0010
Cr2677,267.716 {126},Y_3600,ppm, .0007,.0001,8.982, .0007, .0007
Cu3247,324.754 {104},Y_3600,ppm, -.0003,.0003,100.5, -.0001, -.0006
Fe2404,240.488 {140},In2306,ppm, .0108,.0026,24.10, .0126, .0089
K_7664,766.490 { 44},Y_3710,ppm, .0334,.0028,8.322, .0314, .0354
K_7698,769.896 { 44},Y_3710,ppm, .0061,.0082,134.6, .0118, .0003
Li6707,670.784 { 50},Y_3710,ppm, -.0001,.0001,82.83, .0000, -.0002
Mg2790,279.079 {121},Y_3710,ppm, .4149,.0060,1.449, .4192, .4107
Mn2576,257.610 {131},Y_3600,ppm, .0122,.0008,6.673, .0116, .0127
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0121,.0005,4.366, .0125, .0118
Mo2020,202.030 {467},Y_2243,ppm, .0025,.0005,21.06, .0021, .0029
Na5895,589.592 { 57},Y_3710,ppm, 26.91,.2541,.9442, 27.09, 26.74
Na8183,818.326 { 41},Y_3710,ppm, 26.68,.2336,.8757, 26.85, 26.51
Ni2316,231.604 {445},In2306,ppm, .0009,.0004,44.55, .0006, .0012
P_1782,178.284 {489},In2306,ppm, .0042,.0004,9.743, .0045, .0039
Pb2203,220.353 {453},In2306,ppm, .0008,.0011,144.9, .0000, .0016
S_1820,182.034 {485},Y_2243,ppm, -11.80,.2845,2.410, -12.01, -11.60
Sb2068,206.833 {463},Y_2243,ppm, .0039,.0004,11.43, .0036, .0042
Se1960,196.090 {472},Y_2243,ppm, .0013,.0018,135.0, .0001, .0025
Si2516,251.611 {134},Y_3710,ppm, .1194,.0015,1.223, .1204, .1184
Sn1899,189.989 {477},In2306,ppm, .0014,.0008,55.48, .0009, .0020
Sr4215,421.552 { 80},Y_3710,ppm, .0090,.0001,.9112, .0091, .0089
Ti3349,334.904 {101},Y_3600,ppm, .0008,.0000,3.367, .0008, .0008
Tl1908,190.856 {477},In2306,ppm, -.0004,.0010,275.2, -.0011, .0004
V_2924,292.402 {115},Y_3600,ppm, .0000,.0004,1060., .0003, -.0002
Zn2062,206.200 {463},In2306,ppm, .0187,.0000,.2454, .0187, .0186

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1025.3,13.745,1.3406,1015.6,1035.0
In2306,230.606 {446},Cts/S, 12163.,270.47,2.2238,11971.,12354.
Y_2243,224.306 {450},Cts/S, 19895.,486.61,2.4459,19551.,20239.
Y_3600,360.073 { 94},Cts/S, 190710.,10379.,5.4421,198050.,183370.
Y_3710,371.030 { 91},Cts/S, 51201.,679.14,1.3264,50721.,51682.

```
[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:07:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2452,.0011,.4419, .2460, .2445
Al3082,308.215 {109},In2306,ppm, 2.431,.0685,2.817, 2.383, 2.480
As1890,189.042 {478},Y_2243,ppm, .5034,.0008,.1500, .5039, .5029
B_2496,249.678 {135},Y_3710,ppm, .4863,.0047,.9615, .4830, .4896
Ba4554,455.403 { 74},Y_3710,ppm, .4925,.0058,1.171, .4884, .4966
Be3130,313.042 {108},Y_3710,ppm, .4940,.0081,1.644, .4883, .4998
Ca3158,315.887 {107},In2306,ppm, 12.24,.2013,1.644, 12.10, 12.38
Ca3181,318.128 {106},In2306,ppm, 12.14,.2449,2.017, 11.97, 12.32
Cd2288,228.802 {447},Y_2243,ppm, .4881,.0051,1.044, .4845, .4917
Co2286,228.616 {447},In2306,ppm, .4868,.0042,.8625, .4838, .4897
Cr2677,267.716 {126},Y_3600,ppm, .4898,.0016,.3228, .4910, .4887
Cu3247,324.754 {104},Y_3600,ppm, .4883,.0063,1.295, .4928, .4838
Fe2404,240.488 {140},In2306,ppm, 2.441,.0601,2.461, 2.399, 2.484
K_7664,766.490 { 44},Y_3710,ppm, 12.34,.0512,.4150, 12.30, 12.38
K_7698,769.896 { 44},Y_3710,ppm, 12.46,.0253,.2028, 12.45, 12.48
Li6707,670.784 { 50},Y_3710,ppm, .4996,.0051,1.016, .4960, .5032
Mg2790,279.079 {121},Y_3710,ppm, 4.839,.0665,1.374, 4.792, 4.886
Mn2576,257.610 {131},Y_3600,ppm, .4888,.0016,.3249, .4900, .4877
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4938,.0073,1.468, .4887, .4989
Mo2020,202.030 {467},Y_2243,ppm, .5111,.0065,1.275, .5064, .5157
Na5895,589.592 { 57},Y_3710,ppm, 12.45,.0860,.6908, 12.39, 12.51
Na8183,818.326 { 41},Y_3710,ppm, 12.24,.2118,1.731, 12.09, 12.39
Ni2316,231.604 {445},In2306,ppm, .4871,.0038,.7818, .4844, .4898
P_1782,178.284 {489},In2306,ppm, .4929,.0059,1.194, .4887, .4971
Pb2203,220.353 {453},In2306,ppm, .4850,.0041,.8408, .4822, .4879
S_1820,182.034 {485},Y_2243,ppm, -207.8,2.428,1.168, -206.1, -209.5
Sb2068,206.833 {463},Y_2243,ppm, .4987,.0057,1.139, .4947, .5028
Se1960,196.090 {472},Y_2243,ppm, .4967,.0085,1.705, .4907, .5027
Si2516,251.611 {134},Y_3710,ppm, .9508,.0083,.8714, .9449, .9566
Sn1899,189.989 {477},In2306,ppm, .5006,.0042,.8378, .4977, .5036
Sr4215,421.552 { 80},Y_3710,ppm, .2469,.0037,1.492, .2443, .2495
Ti3349,334.904 {101},Y_3600,ppm, .4956,.0030,.6018, .4977, .4935
Tl1908,190.856 {477},In2306,ppm, .4917,.0018,.3638, .4904, .4929
V_2924,292.402 {115},Y_3600,ppm, .4957,.0031,.6211, .4979, .4935
Zn2062,206.200 {463},In2306,ppm, .4813,.0041,.8577, .4784, .4842

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1001.8,1.5068,.15041,1000.7,1002.9
In2306,230.606 {446},Cts/S, 11963.,99.080,.82821,12033.,11893.
Y_2243,224.306 {450},Cts/S, 19618.,192.76,.98255,19755.,19482.
Y_3600,360.073 { 94},Cts/S, 188790.,1406.5,.74499,187800.,189780.
Y_3710,371.030 { 91},Cts/S, 49994.,427.53,.85517,49691.,50296.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
```

SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:09:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0064,.0015,23.63, .0053, .0075
Al3082,308.215 {109},In2306,ppm, .0895,.0074,8.221, .0843, .0947
As1890,189.042 {478},Y_2243,ppm, .0109,.0014,12.43, .0099, .0118
B_2496,249.678 {135},Y_3710,ppm, .0098,.0007,7.349, .0103, .0093
Ba4554,455.403 { 74},Y_3710,ppm, .0101,.0000,.3755, .0101, .0102
Be3130,313.042 {108},Y_3710,ppm, .0050,.0000,.4047, .0050, .0051
Ca3158,315.887 {107},In2306,ppm, .1104,.0009,.8073, .1110, .1097
Ca3181,318.128 {106},In2306,ppm, .0864,.0031,3.623, .0842, .0886
Cd2288,228.802 {447},Y_2243,ppm, .0052,.0004,7.387, .0049, .0055
Co2286,228.616 {447},In2306,ppm, .0101,.0005,5.243, .0097, .0104
Cr2677,267.716 {126},Y_3600,ppm, .0111,.0011,9.991, .0103, .0119
Cu3247,324.754 {104},Y_3600,ppm, .0099,.0009,9.084, .0093, .0105
Fe2404,240.488 {140},In2306,ppm, .0985,.0000,.0158, .0985, .0985
K_7664,766.490 { 44},Y_3710,ppm, .6013,.0099,1.648, .6083, .5943
K_7698,769.896 { 44},Y_3710,ppm, .5294,.0094,1.778, .5360, .5227
Li6707,670.784 { 50},Y_3710,ppm, .0098,.0001,.6274, .0099, .0098
Mg2790,279.079 {121},Y_3710,ppm, .1034,.0064,6.174, .1080, .0989
Mn2576,257.610 {131},Y_3600,ppm, .0108,.0013,11.92, .0099, .0117
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0107,.0005,4.317, .0104, .0111
Mo2020,202.030 {467},Y_2243,ppm, .0119,.0012,10.32, .0110, .0128
Na5895,589.592 { 57},Y_3710,ppm, .5987,.0085,1.423, .6047, .5927
Na8183,818.326 { 41},Y_3710,ppm, .7092,.1353,19.08, .8049, .6135
Ni2316,231.604 {445},In2306,ppm, .0102,.0004,4.287, .0099, .0105
P_1782,178.284 {489},In2306,ppm, .0084,.0002,2.051, .0082, .0085
Pb2203,220.353 {453},In2306,ppm, .0100,.0011,10.83, .0092, .0108
S_1820,182.034 {485},Y_2243,ppm, .1224,.1560,127.4, .2328, .0121
Sb2068,206.833 {463},Y_2243,ppm, .0118,.0029,24.06, .0098, .0139
Se1960,196.090 {472},Y_2243,ppm, .0104,.0006,6.108, .0100, .0109
Si2516,251.611 {134},Y_3710,ppm, .0148,.0012,7.796, .0140, .0156
Sn1899,189.989 {477},In2306,ppm, .0100,.0010,10.20, .0093, .0107
Sr4215,421.552 { 80},Y_3710,ppm, .0050,.0000,.5723, .0050, .0050
Ti3349,334.904 {101},Y_3600,ppm, .0111,.0013,11.73, .0102, .0120
Tl1908,190.856 {477},In2306,ppm, .0107,.0018,17.06, .0094, .0119
V_2924,292.402 {115},Y_3600,ppm, .0106,.0013,12.49, .0096, .0115
Zn2062,206.200 {463},In2306,ppm, .0105,.0005,4.974, .0101, .0108

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1045.6,8.3706,.80055,1039.7,1051.5
In2306,230.606 {446},Cts/S, 12035.,264.80,2.2002,12222.,11848.
Y_2243,224.306 {450},Cts/S, 19893.,467.41,2.3497,20223.,19562.
Y_3600,360.073 { 94},Cts/S, 183810.,17918.,9.7483,196480.,171140.
Y_3710,371.030 { 91},Cts/S, 51729.,407.52,.78781,51440.,52017.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=

Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 12:11:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0003,.0007,250.5, -.0002, .0008
Al3082,308.215 {109},In2306,ppm, -.0007,.0059,836.5, -.0048, .0034
As1890,189.042 {478},Y_2243,ppm, -.0005,.0003,72.87, -.0002, -.0007
B_2496,249.678 {135},Y_3710,ppm, -.0010,.0026,251.0, .0008, -.0028
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,853.0, -.0001, .0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,43.46, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0062,.0010,16.40, .0069, .0055
Ca3181,318.128 {106},In2306,ppm, -.0048,.0078,160.2, -.0103, .0006
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,68.44, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0001,230.7, -.0001, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0004,.0002,59.25, .0006, .0002
Cu3247,324.754 {104},Y_3600,ppm, -.0001,.0001,111.8, -.0001, .0000
Fe2404,240.488 {140},In2306,ppm, .0025,.0009,34.64, .0032, .0019
K_7664,766.490 { 44},Y_3710,ppm, -.0378,.0212,56.05, -.0228, -.0528
K_7698,769.896 { 44},Y_3710,ppm, -.0266,.0490,184.4, .0081, -.0612
Li6707,670.784 { 50},Y_3710,ppm, -.0010,.0001,10.04, -.0009, -.0010
Mg2790,279.079 {121},Y_3710,ppm, .0080,.0018,23.22, .0067, .0093
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,69.84, .0000, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0002,.0000,.7100, .0002, .0002
Mo2020,202.030 {467},Y_2243,ppm, -.0005,.0004,78.23, -.0002, -.0007
Na5895,589.592 { 57},Y_3710,ppm, -.0081,.0071,88.02, -.0131, -.0030
Na8183,818.326 { 41},Y_3710,ppm, .3965,.0293,7.385, .4172, .3758
Ni2316,231.604 {445},In2306,ppm, .0000,.0002,2707., .0001, -.0002
P_1782,178.284 {489},In2306,ppm, .0002,.0005,254.3, .0005, -.0001
Pb2203,220.353 {453},In2306,ppm, .0000,.0003,1296., .0002, -.0003
S_1820,182.034 {485},Y_2243,ppm, -.0819,.1251,152.7, .0065, -.1704
Sb2068,206.833 {463},Y_2243,ppm, -.0006,.0008,129.6, -.0001, -.0012
Se1960,196.090 {472},Y_2243,ppm, .0006,.0006,111.5, .0001, .0010
Si2516,251.611 {134},Y_3710,ppm, -.0013,.0025,188.3, .0004, -.0031
Sn1899,189.989 {477},In2306,ppm, -.0002,.0005,303.5, .0002, -.0005
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,113.7, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0000,38.97, .0001, .0001
Tl1908,190.856 {477},In2306,ppm, .0007,.0005,70.82, .0010, .0003
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0001,118.5, -.0002, .0000
Zn2062,206.200 {463},In2306,ppm, -.0001,.0001,97.05, .0000, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1016.9,14.026,1.3793,1007.0,1026.8
In2306,230.606 {446},Cts/S, 11954.,113.32,.94791,11874.,12034.
Y_2243,224.306 {450},Cts/S, 19727.,256.28,1.2992,19546.,19908.
Y_3600,360.073 { 94},Cts/S, 193680.,2889.3,1.4918,191630.,195720.
Y_3710,371.030 { 91},Cts/S, 50789.,911.31,1.7943,50145.,51433.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=mb 600-89672/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=

Custom ID3=
Run Time=9/28/2012 13:00:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0009,5559., .0006, -.0007
Al3082,308.215 {109},In2306,ppm, -.0025,.0051,207.8, -.0061, .0012
As1890,189.042 {478},Y_2243,ppm, -.0007,.0000,7.218, -.0006, -.0007
B_2496,249.678 {135},Y_3710,ppm, -.0010,.0004,35.30, -.0008, -.0013
Ba4554,455.403 { 74},Y_3710,ppm, .0006,.0000,8.022, .0005, .0006
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,643.8, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0304,.0043,14.07, .0274, .0334
Ca3181,318.128 {106},In2306,ppm, .0089,.0033,37.78, .0112, .0065
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,190.7, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0001,.0000,44.01, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0005,.0003,72.02, .0007, .0002
Cu3247,324.754 {104},Y_3600,ppm, .0005,.0003,52.24, .0003, .0007
Fe2404,240.488 {140},In2306,ppm, .0266,.0045,16.82, .0234, .0297
K_7664,766.490 { 44},Y_3710,ppm, .0070,.0040,56.54, .0099, .0042
K_7698,769.896 { 44},Y_3710,ppm, -.0502,.0244,48.56, -.0675, -.0330
Li6707,670.784 { 50},Y_3710,ppm, -.0007,.0000,5.029, -.0007, -.0008
Mg2790,279.079 {121},Y_3710,ppm, .0022,.0070,318.5, .0072, -.0028
Mn2576,257.610 {131},Y_3600,ppm, .0008,.0003,32.76, .0010, .0006
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0011,.0002,15.91, .0012, .0010
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0000,19.74, .0001, .0001
Na5895,589.592 { 57},Y_3710,ppm, -.0014,.0030,214.6, -.0035, .0007
Na8183,818.326 { 41},Y_3710,ppm, .1645,.0634,38.52, .2093, .1197
Ni2316,231.604 {445},In2306,ppm, .0002,.0001,38.64, .0002, .0001
P_1782,178.284 {489},In2306,ppm, -.0008,.0010,124.6, -.0001, -.0016
Pb2203,220.353 {453},In2306,ppm, -.0005,.0009,166.6, .0001, -.0011
S_1820,182.034 {485},Y_2243,ppm, -.9579,.2512,26.23, -1.136, -.7802
Sb2068,206.833 {463},Y_2243,ppm, -.0004,.0004,81.79, -.0002, -.0007
Se1960,196.090 {472},Y_2243,ppm, .0009,.0010,109.1, .0016, .0002
Si2516,251.611 {134},Y_3710,ppm, .0128,.0036,28.20, .0103, .0154
Sn1899,189.989 {477},In2306,ppm, -.0018,.0002,10.75, -.0020, -.0017
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,74.65, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0002,326.6, -.0001, .0002
Tl1908,190.856 {477},In2306,ppm, .0005,.0005,105.3, .0001, .0009
V_2924,292.402 {115},Y_3600,ppm, -.0002,.0003,141.1, -.0004, .0000
Zn2062,206.200 {463},In2306,ppm, .0018,.0001,3.883, .0019, .0018

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1051.2,32.648,3.1057,1074.3,1028.1
In2306,230.606 {446},Cts/S, 12125.,100.36,.82768,12196.,12054.
Y_2243,224.306 {450},Cts/S, 19594.,173.80,.88700,19717.,19471.
Y_3600,360.073 { 94},Cts/S, 187350.,6865.9,3.6648,182490.,192200.
Y_3710,371.030 { 91},Cts/S, 52423.,1755.6,3.3489,53665.,51182.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lcs 600-89672/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:03:03
Sample Type=Unk

Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5376,.0074,1.378, .5323, .5428
Al3082,308.215 {109},In2306,ppm, 10.18,.7481,7.351, 9.648, 10.71
As1890,189.042 {478},Y_2243,ppm, 1.082,.0334,3.087, 1.106, 1.058
B_2496,249.678 {135},Y_3710,ppm, .9976,.0687,6.885, .9491, 1.046
Ba4554,455.403 { 74},Y_3710,ppm, 1.033,.0710,6.869, .9832, 1.084
Be3130,313.042 {108},Y_3710,ppm, .5140,.0376,7.317, .4874, .5406
Ca3158,315.887 {107},In2306,ppm, 10.62,.6386,6.013, 10.17, 11.07
Ca3181,318.128 {106},In2306,ppm, 10.20,.6977,6.841, 9.706, 10.69
Cd2288,228.802 {447},Y_2243,ppm, .5246,.0130,2.479, .5338, .5154
Co2286,228.616 {447},In2306,ppm, 1.027,.0275,2.674, 1.047, 1.008
Cr2677,267.716 {126},Y_3600,ppm, 1.012,.0150,1.485, 1.001, 1.022
Cu3247,324.754 {104},Y_3600,ppm, 1.036,.0114,1.101, 1.028, 1.044
Fe2404,240.488 {140},In2306,ppm, 10.21,.7518,7.367, 9.674, 10.74
K_7664,766.490 { 44},Y_3710,ppm, 10.05,.5868,5.838, 9.636, 10.47
K_7698,769.896 { 44},Y_3710,ppm, 10.30,.6468,6.277, 9.848, 10.76
Li6707,670.784 { 50},Y_3710,ppm, .5174,.0355,6.871, .4922, .5425
Mg2790,279.079 {121},Y_3710,ppm, 9.954,.7336,7.370, 9.436, 10.47
Mn2576,257.610 {131},Y_3600,ppm, 1.053,.0147,1.393, 1.043, 1.063
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.058,.0779,7.357, 1.003, 1.113
Mo2020,202.030 {467},Y_2243,ppm, 1.157,.0352,3.040, 1.181, 1.132
Na5895,589.592 { 57},Y_3710,ppm, 10.34,.6648,6.429, 9.871, 10.81
Na8183,818.326 { 41},Y_3710,ppm, 10.20,.6862,6.728, 9.714, 10.68
Ni2316,231.604 {445},In2306,ppm, 1.037,.0273,2.633, 1.056, 1.018
P_1782,178.284 {489},In2306,ppm, -.0005,.0007,133.4, .0000, -.0010
Pb2203,220.353 {453},In2306,ppm, 1.032,.0275,2.669, 1.051, 1.012
S_1820,182.034 {485},Y_2243,ppm, -.5027,.0465,9.255, -.5356, -.4698
Sb2068,206.833 {463},Y_2243,ppm, 1.080,.0287,2.661, 1.100, 1.060
Se1960,196.090 {472},Y_2243,ppm, 1.080,.0272,2.521, 1.099, 1.061
Si2516,251.611 {134},Y_3710,ppm, 1.007,.0850,8.441, .9471, 1.067
Sn1899,189.989 {477},In2306,ppm, 1.089,.0325,2.988, 1.112, 1.066
Sr4215,421.552 { 80},Y_3710,ppm, .5221,.0386,7.391, .4949, .5494
Ti3349,334.904 {101},Y_3600,ppm, 1.044,.0156,1.494, 1.033, 1.055
Tl1908,190.856 {477},In2306,ppm, 1.053,.0298,2.829, 1.075, 1.032
V_2924,292.402 {115},Y_3600,ppm, 1.039,.0115,1.110, 1.031, 1.047
Zn2062,206.200 {463},In2306,ppm, 1.014,.0293,2.889, 1.034, .9930

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 985.05,32.567,3.3062,1008.1,962.02
In2306,230.606 {446},Cts/S, 11541.,245.39,2.1263,11367.,11714.
Y_2243,224.306 {450},Cts/S, 18648.,416.57,2.2338,18354.,18943.
Y_3600,360.073 { 94},Cts/S, 185050.,2021.9,1.0926,186480.,183620.
Y_3710,371.030 { 91},Cts/S, 50018.,1791.1,3.5810,51284.,48751.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61916-c-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:05:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

```
[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0013,.0021,155.4, .0001, -.0028
Al3082,308.215 {109},In2306,ppm, .8137,.0399,4.902, .8419, .7855
As1890,189.042 {478},Y_2243,ppm, .0040,.0004,10.92, .0037, .0043
B_2496,249.678 {135},Y_3710,ppm, .0387,.0030,7.646, .0366, .0408
Ba4554,455.403 { 74},Y_3710,ppm, .0312,.0011,3.656, .0320, .0304
Be3130,313.042 {108},Y_3710,ppm, .0010,.0000,.3722, .0010, .0010
Ca3158,315.887 {107},In2306,ppm, 7.762,.2603,3.354, 7.946, 7.578
Ca3181,318.128 {106},In2306,ppm, 7.450,.3236,4.344, 7.679, 7.221
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0007,123.7, .0001, .0010
Co2286,228.616 {447},In2306,ppm, .0011,.0015,135.2, .0000, .0022
Cr2677,267.716 {126},Y_3600,ppm, .0071,.0004,5.179, .0069, .0074
Cu3247,324.754 {104},Y_3600,ppm, .0003,.0005,139.4, .0007, .0000
Fe2404,240.488 {140},In2306,ppm, .7262,.0231,3.175, .7425, .7099
K_7664,766.490 { 44},Y_3710,ppm, 15.40,.5119,3.324, 15.76, 15.04
K_7698,769.896 { 44},Y_3710,ppm, 15.69,.4675,2.980, 16.02, 15.36
Li6707,670.784 { 50},Y_3710,ppm, .0039,.0011,26.96, .0032, .0047
Mg2790,279.079 {121},Y_3710,ppm, 2.015,.0926,4.596, 2.080, 1.949
Mn2576,257.610 {131},Y_3600,ppm, 12.94,.6716,5.188, 12.47, 13.42
Mn2576-2,257.610 {131}2,Y_3710,ppm, 13.67,.4060,2.970, 13.96, 13.38
Mo2020,202.030 {467},Y_2243,ppm, .0030,.0027,90.09, .0011, .0050
Na5895,589.592 { 57},Y_3710,ppm, 411.1,3.619,.8804, 408.5, 413.6
Na8183,818.326 { 41},Y_3710,ppm, 425.9,14.22,3.339, 436.0, 415.9
Ni2316,231.604 {445},In2306,ppm, .0011,.0016,155.3, -.0001, .0022
P_1782,178.284 {489},In2306,ppm, 1.453,.0190,1.310, 1.467, 1.440
Pb2203,220.353 {453},In2306,ppm, .0043,.0006,14.27, .0039, .0047
S_1820,182.034 {485},Y_2243,ppm, -35490.,546.3,1.539, -35880., -35110.
Sb2068,206.833 {463},Y_2243,ppm, .0025,.0032,126.7, .0003, .0048
Se1960,196.090 {472},Y_2243,ppm, .0076,.0000,.3356, .0076, .0076
Si2516,251.611 {134},Y_3710,ppm, 14.00,.4701,3.358, 14.33, 13.67
Sn1899,189.989 {477},In2306,ppm, .0010,.0026,260.5, -.0008, .0028
Sr4215,421.552 { 80},Y_3710,ppm, .0512,.0016,3.040, .0523, .0501
Ti3349,334.904 {101},Y_3600,ppm, .0661,.0041,6.142, .0633, .0690
Tl1908,190.856 {477},In2306,ppm, .0008,.0087,1034., -.0053, .0070
V_2924,292.402 {115},Y_3600,ppm, .0326,.0016,4.811, .0315, .0337
Zn2062,206.200 {463},In2306,ppm, .0108,.0014,12.91, .0098, .0118

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 970.66,29.547,3.0440,949.77,991.56
In2306,230.606 {446},Cts/S, 11413.,96.148,.84246,11345.,11481.
Y_2243,224.306 {450},Cts/S, 19233.,236.18,1.2280,19066.,19400.
Y_3600,360.073 { 94},Cts/S, 176770.,8064.7,4.5621,182480.,171070.
Y_3710,371.030 { 91},Cts/S, 50188.,1507.8,3.0042,49122.,51255.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61922-1-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:07:45
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
```

```
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0008,333.4, -.0008, .0003
Al3082,308.215 {109},In2306,ppm, .0415,.0047,11.41, .0382, .0449
As1890,189.042 {478},Y_2243,ppm, .0084,.0025,29.55, .0066, .0101
B_2496,249.678 {135},Y_3710,ppm, .4568,.0221,4.840, .4725, .4412
Ba4554,455.403 { 74},Y_3710,ppm, .1168,.0050,4.243, .1203, .1133
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,57.68, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 52.66,2.285,4.339, 54.27, 51.04
Ca3181,318.128 {106},In2306,ppm, 51.05,1.942,3.805, 52.42, 49.68
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,89.18, -.0001, .0000
Co2286,228.616 {447},In2306,ppm, .0016,.0000,.6786, .0016, .0016
Cr2677,267.716 {126},Y_3600,ppm, .0025,.0001,2.077, .0024, .0025
Cu3247,324.754 {104},Y_3600,ppm, .0015,.0001,6.449, .0014, .0016
Fe2404,240.488 {140},In2306,ppm, .0486,.0029,5.936, .0506, .0465
K_7664,766.490 { 44},Y_3710,ppm, 13.41,.5061,3.775, 13.76, 13.05
K_7698,769.896 { 44},Y_3710,ppm, 13.66,.6165,4.515, 14.09, 13.22
Li6707,670.784 { 50},Y_3710,ppm, .0589,.0023,3.835, .0605, .0573
Mg2790,279.079 {121},Y_3710,ppm, 7.944,.2747,3.458, 8.138, 7.749
Mn2576,257.610 {131},Y_3600,ppm, .0029,.0012,39.56, .0037, .0021
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0057,.0005,8.086, .0060, .0054
Mo2020,202.030 {467},Y_2243,ppm, .0122,.0004,3.336, .0125, .0120
Na5895,589.592 { 57},Y_3710,ppm, 820.3,13.36,1.628, 829.8, 810.9
Na8183,818.326 { 41},Y_3710,ppm, 854.9,35.24,4.122, 879.9, 830.0
Ni2316,231.604 {445},In2306,ppm, .0032,.0002,5.217, .0033, .0031
P_1782,178.284 {489},In2306,ppm, 1.899,.0057,.3027, 1.895, 1.904
Pb2203,220.353 {453},In2306,ppm, .0011,.0003,26.99, .0009, .0014
S_1820,182.034 {485},Y_2243,ppm, -57410.,31.16,.0543, -57430., -57390.
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0006,49.75, -.0008, -.0016
Se1960,196.090 {472},Y_2243,ppm, .1119,.0010,.8533, .1126, .1112
Si2516,251.611 {134},Y_3710,ppm, 7.459,.3345,4.485, 7.695, 7.222
Sn1899,189.989 {477},In2306,ppm, -.0010,.0006,60.89, -.0006, -.0014
Sr4215,421.552 { 80},Y_3710,ppm, .9153,.0405,4.422, .9439, .8867
Ti3349,334.904 {101},Y_3600,ppm, .0006,.0001,13.46, .0006, .0007
Tl1908,190.856 {477},In2306,ppm, .0014,.0008,56.42, .0019, .0008
V_2924,292.402 {115},Y_3600,ppm, .0094,.0001,1.373, .0094, .0093
Zn2062,206.200 {463},In2306,ppm, .0381,.0002,.4671, .0380, .0382

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 933.86,29.545,3.1637,912.97,954.75
In2306,230.606 {446},Cts/S, 10745.,34.715,.32310,10769.,10720.
Y_2243,224.306 {450},Cts/S, 18260.,22.829,.12502,18276.,18244.
Y_3600,360.073 { 94},Cts/S, 170220.,793.57,.46620,169660.,170780.
Y_3710,371.030 { 91},Cts/S, 46984.,1522.5,3.2405,45907.,48061.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61939-f-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:10:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0014,.0008,56.14, .0019, .0008
Al3082,308.215 {109},In2306,ppm, .5612,.0356,6.344, .5360, .5864
As1890,189.042 {478},Y_2243,ppm, .0032,.0005,15.40, .0028, .0035
```

```
B_2496,249.678 {135},Y_3710,ppm, .1502,.0081,5.425, .1444, .1560
Ba4554,455.403 { 74},Y_3710,ppm, .1252,.0059,4.682, .1211, .1294
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,24.95, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 53.61,2.018,3.765, 52.19, 55.04
Ca3181,318.128 {106},In2306,ppm, 52.25,2.163,4.139, 50.72, 53.78
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,7.847, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0020,.0000,.4167, .0019, .0020
Cr2677,267.716 {126},Y_3600,ppm, .0019,.0003,17.79, .0021, .0017
Cu3247,324.754 {104},Y_3600,ppm, .0015,.0002,14.20, .0014, .0017
Fe2404,240.488 {140},In2306,ppm, .4913,.0193,3.920, .4777, .5050
K_7664,766.490 { 44},Y_3710,ppm, 3.379,.1157,3.422, 3.298, 3.461
K_7698,769.896 { 44},Y_3710,ppm, 3.490,.1309,3.752, 3.397, 3.582
Li6707,670.784 { 50},Y_3710,ppm, .0189,.0014,7.534, .0179, .0199
Mg2790,279.079 {121},Y_3710,ppm, 17.11,.8834,5.164, 16.48, 17.73
Mn2576,257.610 {131},Y_3600,ppm, .6274,.0392,6.254, .5997, .6552
Mn2576-2,257.610 {131}2,Y_3710,ppm, .6489,.0316,4.867, .6266, .6713
Mo2020,202.030 {467},Y_2243,ppm, .0021,.0002,10.14, .0023, .0020
Na5895,589.592 { 57},Y_3710,ppm, 229.4,16.89,7.364, 217.5, 241.4
Na8183,818.326 { 41},Y_3710,ppm, 233.4,9.955,4.264, 226.4, 240.5
Ni2316,231.604 {445},In2306,ppm, .0010,.0001,11.20, .0011, .0009
P_1782,178.284 {489},In2306,ppm, .0600,.0003,.4187, .0602, .0598
Pb2203,220.353 {453},In2306,ppm, .0028,.0008,27.13, .0022, .0033
S_1820,182.034 {485},Y_2243,ppm, -1121.,3.635,.3243, -1119., -1124.
Sb2068,206.833 {463},Y_2243,ppm, -.0017,.0008,46.66, -.0011, -.0022
Se1960,196.090 {472},Y_2243,ppm, .0012,.0005,42.94, .0015, .0008
Si2516,251.611 {134},Y_3710,ppm, 14.88,.6786,4.559, 14.41, 15.36
Sn1899,189.989 {477},In2306,ppm, -.0005,.0013,257.8, -.0014, .0004
Sr4215,421.552 { 80},Y_3710,ppm, .3521,.0165,4.676, .3405, .3637
Ti3349,334.904 {101},Y_3600,ppm, .0097,.0003,3.044, .0094, .0099
Tl1908,190.856 {477},In2306,ppm, -.0011,.0013,116.4, -.0021, -.0002
V_2924,292.402 {115},Y_3600,ppm, .0024,.0001,2.868, .0024, .0025
Zn2062,206.200 {463},In2306,ppm, .0066,.0001,2.047, .0067, .0065

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 964.48,25.931,2.6886,982.81,946.14
In2306,230.606 {446},Cts/S, 11547.,94.269,.81640,11480.,11614.
Y_2243,224.306 {450},Cts/S, 18974.,165.27,.87106,18857.,19090.
Y_3600,360.073 { 94},Cts/S, 176830.,7873.7,4.4528,182390.,171260.
Y_3710,371.030 { 91},Cts/S, 48445.,1665.6,3.4382,49623.,47267.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61967-c-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:12:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0007,.0015,210.8, .0003, -.0017
Al3082,308.215 {109},In2306,ppm, .0021,.0089,432.9, -.0043, .0084
As1890,189.042 {478},Y_2243,ppm, .0001,.0008,687.3, -.0005, .0007
B_2496,249.678 {135},Y_3710,ppm, -.0007,.0021,323.3, -.0021, .0008
Ba4554,455.403 { 74},Y_3710,ppm, .0013,.0001,6.370, .0012, .0013
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,126.9, .0000, .0000
```

```
Ca3158,315.887 {107},In2306,ppm, 1.160,.0104,.8964, 1.153, 1.167
Ca3181,318.128 {106},In2306,ppm, 1.114,.0461,4.139, 1.081, 1.146
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,218.6, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0001,23490., .0001, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0003,207.8, .0004, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0000,.0004,1935., -.0003, .0003
Fe2404,240.488 {140},In2306,ppm, .0669,.0043,6.420, .0638, .0699
K_7664,766.490 { 44},Y_3710,ppm, 8.958,.0071,.0795, 8.953, 8.963
K_7698,769.896 { 44},Y_3710,ppm, 9.075,.0317,.3496, 9.052, 9.097
Li6707,670.784 { 50},Y_3710,ppm, .0008,.0001,11.66, .0008, .0007
Mg2790,279.079 {121},Y_3710,ppm, .1106,.0040,3.606, .1078, .1134
Mn2576,257.610 {131},Y_3600,ppm, .0024,.0000,1.808, .0024, .0025
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0026,.0006,24.28, .0030, .0021
Mo2020,202.030 {467},Y_2243,ppm, -.0008,.0001,7.712, -.0008, -.0009
Na5895,589.592 { 57},Y_3710,ppm, 36.70,.1248,.3401, 36.61, 36.78
Na8183,818.326 { 41},Y_3710,ppm, 36.36,.2522,.6937, 36.18, 36.54
Ni2316,231.604 {445},In2306,ppm, .0001,.0000,6.938, .0001, .0001
P_1782,178.284 {489},In2306,ppm, .1621,.0007,.4094, .1626, .1616
Pb2203,220.353 {453},In2306,ppm, .0002,.0007,367.5, -.0003, .0007
S_1820,182.034 {485},Y_2243,ppm, -862.5,9.213,1.068, -869.0, -856.0
Sb2068,206.833 {463},Y_2243,ppm, -.0020,.0003,15.58, -.0022, -.0018
Se1960,196.090 {472},Y_2243,ppm, .0005,.0006,120.4, .0010, .0001
Si2516,251.611 {134},Y_3710,ppm, .0982,.0049,4.964, .0948, .1017
Sn1899,189.989 {477},In2306,ppm, -.0007,.0001,20.84, -.0008, -.0006
Sr4215,421.552 { 80},Y_3710,ppm, .0062,.0001,1.165, .0062, .0063
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0002,66.04, -.0002, -.0004
Tl1908,190.856 {477},In2306,ppm, .0003,.0010,315.2, -.0004, .0010
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0001,85.42, -.0002, .0000
Zn2062,206.200 {463},In2306,ppm, .0047,.0001,2.555, .0048, .0046

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1029.1,2.7788,.27002,1031.1,1027.1
In2306,230.606 {446},Cts/S, 12133.,82.802,.68246,12074.,12191.
Y_2243,224.306 {450},Cts/S, 19574.,155.84,.79614,19464.,19684.
Y_3600,360.073 { 94},Cts/S, 190010.,369.03,.19422,189750.,190270.
Y_3710,371.030 { 91},Cts/S, 50808.,258.91,.50958,50624.,50991.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61946-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:15:03
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0002,93.43, .0004, .0001
Al3082,308.215 {109},In2306,ppm, .3339,.0121,3.633, .3253, .3425
As1890,189.042 {478},Y_2243,ppm, .0052,.0001,2.634, .0053, .0051
B_2496,249.678 {135},Y_3710,ppm, .0964,.0075,7.748, .0911, .1017
Ba4554,455.403 { 74},Y_3710,ppm, .0788,.0035,4.480, .0763, .0813
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,182.0, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 49.90,2.894,5.800, 47.85, 51.95
Ca3181,318.128 {106},In2306,ppm, 48.85,2.550,5.221, 47.05, 50.65
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,3.140, .0000, .0000
```

Co2286,228.616 {447},In2306,ppm, .0002,.0001,70.96, .0001, .0003
Cr2677,267.716 {126},Y_3600,ppm, .0015,.0004,25.03, .0018, .0013
Cu3247,324.754 {104},Y_3600,ppm, .0011,.0000,1.341, .0010, .0011
Fe2404,240.488 {140},In2306,ppm, .2683,.0229,8.548, .2521, .2845
K_7664,766.490 { 44},Y_3710,ppm, 7.333,.3123,4.258, 7.113, 7.554
K_7698,769.896 { 44},Y_3710,ppm, 7.533,.2595,3.444, 7.349, 7.716
Li6707,670.784 { 50},Y_3710,ppm, .0083,.0025,29.70, .0065, .0100
Mg2790,279.079 {121},Y_3710,ppm, 5.538,.2949,5.324, 5.330, 5.747
Mn2576,257.610 {131},Y_3600,ppm, .1156,.0028,2.458, .1136, .1176
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1155,.0079,6.841, .1100, .1211
Mo2020,202.030 {467},Y_2243,ppm, .0023,.0003,15.19, .0020, .0025
Na5895,589.592 { 57},Y_3710,ppm, 275.3,25.39,9.226, 257.3, 293.2
Na8183,818.326 { 41},Y_3710,ppm, 281.4,13.06,4.643, 272.1, 290.6
Ni2316,231.604 {445},In2306,ppm, .0022,.0001,3.083, .0022, .0023
P_1782,178.284 {489},In2306,ppm, .9415,.0066,.7037, .9462, .9368
Pb2203,220.353 {453},In2306,ppm, -.0001,.0000,55.50, -.0001, .0000
S_1820,182.034 {485},Y_2243,ppm, -26220.,308.7,1.177, -26440., -26010.
Sb2068,206.833 {463},Y_2243,ppm, -.0037,.0004,11.48, -.0034, -.0039
Se1960,196.090 {472},Y_2243,ppm, .0001,.0003,271.1, .0003, -.0001
Si2516,251.611 {134},Y_3710,ppm, 4.602,.2689,5.844, 4.412, 4.792
Sn1899,189.989 {477},In2306,ppm, .0001,.0008,1042., .0007, -.0005
Sr4215,421.552 { 80},Y_3710,ppm, .3893,.0189,4.857, .3760, .4027
Ti3349,334.904 {101},Y_3600,ppm, .0059,.0007,11.46, .0054, .0064
Tl1908,190.856 {477},In2306,ppm, -.0010,.0001,9.238, -.0010, -.0011
V_2924,292.402 {115},Y_3600,ppm, .0032,.0001,2.891, .0033, .0031
Zn2062,206.200 {463},In2306,ppm, .0047,.0001,1.599, .0048, .0047

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 954.65,41.004,4.2952,983.64,925.65
In2306,230.606 {446},Cts/S, 11534.,96.316,.83505,11466.,11602.
Y_2243,224.306 {450},Cts/S, 19001.,195.98,1.0314,18862.,19139.
Y_3600,360.073 { 94},Cts/S, 171580.,3948.8,2.3015,174370.,168790.
Y_3710,371.030 { 91},Cts/S, 47861.,1995.2,4.1688,49272.,46450.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61946-a-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:17:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0000,5.047, .0007, .0008
Al3082,308.215 {109},In2306,ppm, .3616,.0171,4.727, .3737, .3495
As1890,189.042 {478},Y_2243,ppm, .0040,.0007,16.94, .0044, .0035
B_2496,249.678 {135},Y_3710,ppm, .0986,.0000,.0033, .0986, .0986
Ba4554,455.403 { 74},Y_3710,ppm, .0776,.0005,.6003, .0780, .0773
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,140.6, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 49.25,.3739,.7592, 49.51, 48.98
Ca3181,318.128 {106},In2306,ppm, 48.13,.4010,.8332, 48.41, 47.84
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,20.46, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0001,64.17, .0001, .0002
Cr2677,267.716 {126},Y_3600,ppm, .0021,.0002,10.30, .0019, .0022
Cu3247,324.754 {104},Y_3600,ppm, .0012,.0004,33.36, .0015, .0009

```
Fe2404,240.488 {140},In2306,ppm, .4410,.0039,.8906, .4438, .4383
K_7664,766.490 { 44},Y_3710,ppm, 7.301,.0590,.8080, 7.343, 7.260
K_7698,769.896 { 44},Y_3710,ppm, 7.419,.0777,1.048, 7.474, 7.364
Li6707,670.784 { 50},Y_3710,ppm, .0084,.0003,3.860, .0087, .0082
Mg2790,279.079 {121},Y_3710,ppm, 5.432,.0108,.1991, 5.425, 5.440
Mn2576,257.610 {131},Y_3600,ppm, .1073,.0054,5.023, .1035, .1112
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1150,.0000,.0166, .1150, .1150
Mo2020,202.030 {467},Y_2243,ppm, .0021,.0005,22.80, .0025, .0018
Na5895,589.592 { 57},Y_3710,ppm, 263.8,12.28,4.656, 255.1, 272.5
Na8183,818.326 { 41},Y_3710,ppm, 279.3,.9771,.3499, 280.0, 278.6
Ni2316,231.604 {445},In2306,ppm, .0020,.0003,16.36, .0018, .0023
P_1782,178.284 {489},In2306,ppm, .9582,.0664,6.926, .9113, 1.005
Pb2203,220.353 {453},In2306,ppm, .0007,.0006,90.54, .0002, .0011
S_1820,182.034 {485},Y_2243,ppm, -26590.,1767.,6.645, -25340., -27840.
Sb2068,206.833 {463},Y_2243,ppm, -.0018,.0007,39.03, -.0013, -.0023
Se1960,196.090 {472},Y_2243,ppm, .0006,.0008,150.8, .0011, .0000
Si2516,251.611 {134},Y_3710,ppm, 4.595,.0186,.4044, 4.608, 4.581
Sn1899,189.989 {477},In2306,ppm, -.0004,.0003,62.02, -.0003, -.0006
Sr4215,421.552 { 80},Y_3710,ppm, .3870,.0010,.2487, .3877, .3863
Ti3349,334.904 {101},Y_3600,ppm, .0065,.0008,12.13, .0071, .0060
Tl1908,190.856 {477},In2306,ppm, .0002,.0009,355.8, -.0004, .0009
V_2924,292.402 {115},Y_3600,ppm, .0032,.0000,.1811, .0032, .0032
Zn2062,206.200 {463},In2306,ppm, .0050,.0003,6.565, .0047, .0052

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 948.97,11.554,1.2175,940.80,957.14
In2306,230.606 {446},Cts/S, 11156.,628.45,5.6331,11601.,10712.
Y_2243,224.306 {450},Cts/S, 18420.,1026.5,5.5728,19146.,17694.
Y_3600,360.073 { 94},Cts/S, 177190.,8259.7,4.6615,183030.,171350.
Y_3710,371.030 { 91},Cts/S, 47598.,490.04,1.0295,47251.,47944.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61946-a-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:19:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5340,.0035,.6507, .5365, .5316
Al3082,308.215 {109},In2306,ppm, 11.38,.6474,5.691, 10.92, 11.83
As1890,189.042 {478},Y_2243,ppm, 1.046,.0025,.2387, 1.044, 1.048
B_2496,249.678 {135},Y_3710,ppm, 1.161,.0644,5.543, 1.116, 1.207
Ba4554,455.403 { 74},Y_3710,ppm, 1.163,.0673,5.789, 1.115, 1.210
Be3130,313.042 {108},Y_3710,ppm, .5445,.0323,5.933, .5216, .5673
Ca3158,315.887 {107},In2306,ppm, 61.05,3.372,5.523, 58.67, 63.44
Ca3181,318.128 {106},In2306,ppm, 59.56,3.329,5.589, 57.21, 61.91
Cd2288,228.802 {447},Y_2243,ppm, .5063,.0003,.0594, .5061, .5065
Co2286,228.616 {447},In2306,ppm, .9808,.0002,.0212, .9806, .9809
Cr2677,267.716 {126},Y_3600,ppm, .9885,.0086,.8729, .9946, .9824
Cu3247,324.754 {104},Y_3600,ppm, 1.028,.0137,1.328, 1.038, 1.018
Fe2404,240.488 {140},In2306,ppm, 10.91,.6289,5.763, 10.47, 11.36
K_7664,766.490 { 44},Y_3710,ppm, 18.19,.9849,5.416, 17.49, 18.88
K_7698,769.896 { 44},Y_3710,ppm, 18.33,.9687,5.284, 17.65, 19.02
```

```
Li6707,670.784 { 50},Y_3710,ppm, .5496,.0321,5.840, .5269, .5723
Mg2790,279.079 {121},Y_3710,ppm, 15.98,1.003,6.272, 15.28, 16.69
Mn2576,257.610 {131},Y_3600,ppm, 1.116,.0102,.9180, 1.123, 1.108
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.201,.0677,5.633, 1.154, 1.249
Mo2020,202.030 {467},Y_2243,ppm, 1.077,.0004,.0329, 1.077, 1.076
Na5895,589.592 { 57},Y_3710,ppm, 288.9,12.28,4.251, 280.2, 297.6
Na8183,818.326 { 41},Y_3710,ppm, 292.7,15.47,5.285, 281.8, 303.7
Ni2316,231.604 {445},In2306,ppm, .9838,.0012,.1204, .9829, .9846
P_1782,178.284 {489},In2306,ppm, .9193,.0033,.3580, .9169, .9216
Pb2203,220.353 {453},In2306,ppm, .9789,.0012,.1204, .9781, .9798
S_1820,182.034 {485},Y_2243,ppm, -25800.,46.10,.1787, -25770., -25830.
Sb2068,206.833 {463},Y_2243,ppm, 1.015,.0000,.0018, 1.015, 1.015
Se1960,196.090 {472},Y_2243,ppm, 1.051,.0021,.1960, 1.050, 1.053
Si2516,251.611 {134},Y_3710,ppm, 6.119,.3353,5.479, 5.882, 6.356
Sn1899,189.989 {477},In2306,ppm, 1.028,.0030,.2964, 1.026, 1.030
Sr4215,421.552 { 80},Y_3710,ppm, .9392,.0542,5.769, .9009, .9775
Ti3349,334.904 {101},Y_3600,ppm, 1.026,.0101,.9792, 1.033, 1.019
Tl1908,190.856 {477},In2306,ppm, 1.003,.0026,.2596, 1.005, 1.001
V_2924,292.402 {115},Y_3600,ppm, 1.030,.0103,.9983, 1.037, 1.023
Zn2062,206.200 {463},In2306,ppm, .9679,.0002,.0206, .9677, .9680

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 932.33,37.959,4.0714,959.17,905.49
In2306,230.606 {446},Cts/S, 11397.,15.783,.13848,11408.,11386.
Y_2243,224.306 {450},Cts/S, 18867.,27.134,.14382,18886.,18847.
Y_3600,360.073 { 94},Cts/S, 175300.,1583.4,.90323,174180.,176420.
Y_3710,371.030 { 91},Cts/S, 46915.,1987.4,4.2361,48320.,45510.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61946-a-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:22:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5579,.0467,8.379, .5909, .5248
Al3082,308.215 {109},In2306,ppm, 11.03,1.005,9.112, 10.32, 11.74
As1890,189.042 {478},Y_2243,ppm, 1.047,.0241,2.301, 1.065, 1.030
B_2496,249.678 {135},Y_3710,ppm, 1.117,.0870,7.785, 1.056, 1.179
Ba4554,455.403 { 74},Y_3710,ppm, 1.115,.1045,9.372, 1.041, 1.189
Be3130,313.042 {108},Y_3710,ppm, .5229,.0467,8.939, .4898, .5559
Ca3158,315.887 {107},In2306,ppm, 58.95,4.900,8.312, 55.48, 62.41
Ca3181,318.128 {106},In2306,ppm, 56.67,4.738,8.360, 53.32, 60.02
Cd2288,228.802 {447},Y_2243,ppm, .5084,.0116,2.275, .5166, .5002
Co2286,228.616 {447},In2306,ppm, .9822,.0220,2.240, .9978, .9667
Cr2677,267.716 {126},Y_3600,ppm, 1.004,.0860,8.565, 1.065, .9436
Cu3247,324.754 {104},Y_3600,ppm, 1.051,.0902,8.579, 1.115, .9876
Fe2404,240.488 {140},In2306,ppm, 10.73,.9181,8.558, 10.08, 11.38
K_7664,766.490 { 44},Y_3710,ppm, 17.32,1.483,8.566, 16.27, 18.37
K_7698,769.896 { 44},Y_3710,ppm, 17.61,1.582,8.986, 16.49, 18.73
Li6707,670.784 { 50},Y_3710,ppm, .5315,.0503,9.468, .4959, .5670
Mg2790,279.079 {121},Y_3710,ppm, 15.21,1.304,8.574, 14.29, 16.14
Mn2576,257.610 {131},Y_3600,ppm, 1.153,.1027,8.908, 1.225, 1.080
```

```
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.170,.1032,8.820, 1.097, 1.243
Mo2020,202.030 {467},Y_2243,ppm, 1.087,.0240,2.209, 1.104, 1.070
Na5895,589.592 { 57},Y_3710,ppm, 273.2,35.23,12.89, 248.3, 298.2
Na8183,818.326 { 41},Y_3710,ppm, 278.1,23.86,8.582, 261.2, 294.9
Ni2316,231.604 {445},In2306,ppm, .9843,.0225,2.289, 1.000, .9684
P_1782,178.284 {489},In2306,ppm, .9079,.0244,2.683, .9251, .8907
Pb2203,220.353 {453},In2306,ppm, .9796,.0259,2.645, .9979, .9612
S_1820,182.034 {485},Y_2243,ppm, -25520.,551.0,2.159, -25910., -25130.
Sb2068,206.833 {463},Y_2243,ppm, 1.022,.0247,2.418, 1.039, 1.005
Se1960,196.090 {472},Y_2243,ppm, 1.061,.0225,2.124, 1.077, 1.045
Si2516,251.611 {134},Y_3710,ppm, 6.013,.5135,8.540, 5.650, 6.376
Sn1899,189.989 {477},In2306,ppm, 1.031,.0234,2.269, 1.047, 1.014
Sr4215,421.552 { 80},Y_3710,ppm, .9056,.0832,9.182, .8468, .9644
Ti3349,334.904 {101},Y_3600,ppm, 1.054,.0916,8.695, 1.118, .9888
Tl1908,190.856 {477},In2306,ppm, 1.008,.0219,2.175, 1.023, .9923
V_2924,292.402 {115},Y_3600,ppm, 1.051,.0899,8.549, 1.115, .9879
Zn2062,206.200 {463},In2306,ppm, .9660,.0226,2.335, .9819, .9500

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 968.08,57.910,5.9819,1009.0,927.14
In2306,230.606 {446},Cts/S, 11487.,190.30,1.6567,11353.,11622.
Y_2243,224.306 {450},Cts/S, 18943.,328.54,1.7344,18711.,19175.
Y_3600,360.073 { 94},Cts/S, 174120.,12204.,7.0088,165500.,182750.
Y_3710,371.030 { 91},Cts/S, 49459.,3207.2,6.4845,51727.,47191.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:24:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2598,.0025,.9775, .2580, .2616
Al3082,308.215 {109},In2306,ppm, 2.497,.1411,5.650, 2.397, 2.596
As1890,189.042 {478},Y_2243,ppm, .4979,.0173,3.478, .4856, .5101
B_2496,249.678 {135},Y_3710,ppm, .5055,.0309,6.109, .4836, .5273
Ba4554,455.403 { 74},Y_3710,ppm, .5130,.0288,5.612, .4927, .5334
Be3130,313.042 {108},Y_3710,ppm, .5143,.0316,6.148, .4919, .5367
Ca3158,315.887 {107},In2306,ppm, 13.03,.7480,5.740, 12.50, 13.56
Ca3181,318.128 {106},In2306,ppm, 12.53,.7215,5.757, 12.02, 13.04
Cd2288,228.802 {447},Y_2243,ppm, .4812,.0125,2.588, .4724, .4900
Co2286,228.616 {447},In2306,ppm, .4721,.0134,2.830, .4627, .4816
Cr2677,267.716 {126},Y_3600,ppm, .5097,.0008,.1646, .5091, .5103
Cu3247,324.754 {104},Y_3600,ppm, .5088,.0018,.3460, .5075, .5100
Fe2404,240.488 {140},In2306,ppm, 2.508,.1739,6.933, 2.385, 2.631
K_7664,766.490 { 44},Y_3710,ppm, 12.77,.5840,4.574, 12.36, 13.18
K_7698,769.896 { 44},Y_3710,ppm, 13.00,.6102,4.694, 12.57, 13.43
Li6707,670.784 { 50},Y_3710,ppm, .5197,.0275,5.284, .5003, .5392
Mg2790,279.079 {121},Y_3710,ppm, 5.044,.3395,6.732, 4.803, 5.284
Mn2576,257.610 {131},Y_3600,ppm, .5130,.0055,1.072, .5091, .5169
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5305,.0319,6.005, .5079, .5530
Mo2020,202.030 {467},Y_2243,ppm, .5239,.0134,2.554, .5144, .5334
Na5895,589.592 { 57},Y_3710,ppm, 13.03,.6438,4.939, 12.58, 13.49
```

Na8183,818.326 { 41},Y_3710,ppm, 12.67,.4799,3.788, 12.33, 13.01
Ni2316,231.604 {445},In2306,ppm, .4780,.0130,2.727, .4688, .4872
P_1782,178.284 {489},In2306,ppm, .4812,.0124,2.569, .4725, .4900
Pb2203,220.353 {453},In2306,ppm, .4716,.0117,2.490, .4633, .4799
S_1820,182.034 {485},Y_2243,ppm, -210.2,4.701,2.236, -206.9, -213.6
Sb2068,206.833 {463},Y_2243,ppm, .4964,.0113,2.284, .4883, .5044
Se1960,196.090 {472},Y_2243,ppm, .4987,.0132,2.640, .4894, .5080
Si2516,251.611 {134},Y_3710,ppm, 1.011,.0488,4.825, .9761, 1.045
Sn1899,189.989 {477},In2306,ppm, .5039,.0149,2.954, .4933, .5144
Sr4215,421.552 { 80},Y_3710,ppm, .2596,.0154,5.919, .2487, .2705
Ti3349,334.904 {101},Y_3600,ppm, .5143,.0038,.7471, .5116, .5171
Tl1908,190.856 {477},In2306,ppm, .4856,.0159,3.265, .4744, .4968
V_2924,292.402 {115},Y_3600,ppm, .5169,.0028,.5449, .5149, .5189
Zn2062,206.200 {463},In2306,ppm, .4673,.0129,2.767, .4581, .4764

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 977.05,29.208,2.9894,997.70,956.39
In2306,230.606 {446},Cts/S, 12222.,249.57,2.0420,12398.,12045.
Y_2243,224.306 {450},Cts/S, 19754.,401.66,2.0333,20038.,19470.
Y_3600,360.073 { 94},Cts/S, 183350.,801.19,.43697,183920.,182780.
Y_3710,371.030 { 91},Cts/S, 48417.,1483.6,3.0642,49466.,47368.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:26:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0061,.0002,3.833, .0063, .0060
Al3082,308.215 {109},In2306,ppm, .0940,.0038,4.039, .0913, .0967
As1890,189.042 {478},Y_2243,ppm, .0107,.0011,10.05, .0099, .0115
B_2496,249.678 {135},Y_3710,ppm, .0118,.0015,13.13, .0128, .0107
Ba4554,455.403 { 74},Y_3710,ppm, .0107,.0010,9.334, .0100, .0114
Be3130,313.042 {108},Y_3710,ppm, .0053,.0004,8.156, .0050, .0056
Ca3158,315.887 {107},In2306,ppm, .1095,.0069,6.298, .1046, .1143
Ca3181,318.128 {106},In2306,ppm, .1065,.0126,11.81, .0976, .1154
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0002,4.545, .0049, .0053
Co2286,228.616 {447},In2306,ppm, .0098,.0005,4.633, .0095, .0101
Cr2677,267.716 {126},Y_3600,ppm, .0105,.0012,11.81, .0097, .0114
Cu3247,324.754 {104},Y_3600,ppm, .0103,.0002,2.068, .0101, .0104
Fe2404,240.488 {140},In2306,ppm, .1031,.0098,9.482, .0962, .1101
K_7664,766.490 { 44},Y_3710,ppm, .6414,.0580,9.034, .6005, .6824
K_7698,769.896 { 44},Y_3710,ppm, .5994,.0742,12.39, .5469, .6518
Li6707,670.784 { 50},Y_3710,ppm, .0100,.0001,.6650, .0101, .0100
Mg2790,279.079 {121},Y_3710,ppm, .1181,.0197,16.65, .1042, .1320
Mn2576,257.610 {131},Y_3600,ppm, .0104,.0011,10.38, .0096, .0112
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0116,.0013,10.91, .0107, .0125
Mo2020,202.030 {467},Y_2243,ppm, .0117,.0016,13.32, .0106, .0128
Na5895,589.592 { 57},Y_3710,ppm, .6407,.0404,6.306, .6121, .6693
Na8183,818.326 { 41},Y_3710,ppm, .8528,.0303,3.549, .8742, .8314
Ni2316,231.604 {445},In2306,ppm, .0100,.0005,4.692, .0097, .0103
P_1782,178.284 {489},In2306,ppm, .0083,.0002,2.856, .0084, .0081

Pb2203,220.353 {453},In2306,ppm, .0098,.0003,3.251, .0096, .0100
S_1820,182.034 {485},Y_2243,ppm, -.6627,.3319,50.08, -.8974, -.4280
Sb2068,206.833 {463},Y_2243,ppm, .0109,.0020,18.59, .0095, .0123
Se1960,196.090 {472},Y_2243,ppm, .0114,.0020,17.64, .0100, .0128
Si2516,251.611 {134},Y_3710,ppm, .0141,.0021,14.92, .0126, .0156
Sn1899,189.989 {477},In2306,ppm, .0097,.0001,.9936, .0096, .0098
Sr4215,421.552 { 80},Y_3710,ppm, .0053,.0004,7.660, .0050, .0056
Ti3349,334.904 {101},Y_3600,ppm, .0108,.0009,8.535, .0101, .0114
Tl1908,190.856 {477},In2306,ppm, .0074,.0002,2.479, .0073, .0075
V_2924,292.402 {115},Y_3600,ppm, .0101,.0009,9.017, .0095, .0107
Zn2062,206.200 {463},In2306,ppm, .0101,.0004,3.985, .0098, .0104

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1002.4,57.798,5.7661,1043.2,961.51
In2306,230.606 {446},Cts/S, 12188.,298.18,2.4465,12399.,11977.
Y_2243,224.306 {450},Cts/S, 19826.,454.72,2.2936,20147.,19504.
Y_3600,360.073 { 94},Cts/S, 190120.,15842.,8.3329,201320.,178920.
Y_3710,371.030 { 91},Cts/S, 49518.,2645.6,5.3427,51388.,47647.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:29:00
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0006,346.3, .0006, -.0002
Al3082,308.215 {109},In2306,ppm, -.0205,.0057,27.91, -.0165, -.0246
As1890,189.042 {478},Y_2243,ppm, -.0002,.0008,351.8, .0004, -.0008
B_2496,249.678 {135},Y_3710,ppm, .0006,.0005,75.56, .0003, .0010
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0000,241.8, .0000, .0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,119.8, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0032,.0006,20.10, .0027, .0036
Ca3181,318.128 {106},In2306,ppm, -.0066,.0084,128.4, -.0006, -.0125
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,186.1, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0001,.0001,60.60, .0001, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0001,89.89, .0002, .0000
Cu3247,324.754 {104},Y_3600,ppm, .0002,.0006,291.3, .0006, -.0002
Fe2404,240.488 {140},In2306,ppm, .0024,.0020,82.13, .0038, .0010
K_7664,766.490 { 44},Y_3710,ppm, .0010,.0283,2807., -.0190, .0211
K_7698,769.896 { 44},Y_3710,ppm, .0179,.0250,139.4, .0003, .0356
Li6707,670.784 { 50},Y_3710,ppm, -.0015,.0001,3.497, -.0015, -.0015
Mg2790,279.079 {121},Y_3710,ppm, .0033,.0135,409.2, -.0063, .0129
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0001,3583., .0001, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0004,.0001,14.66, .0005, .0004
Mo2020,202.030 {467},Y_2243,ppm, -.0001,.0004,425.3, -.0003, .0002
Na5895,589.592 { 57},Y_3710,ppm, -.0058,.0005,7.985, -.0055, -.0061
Na8183,818.326 { 41},Y_3710,ppm, .0190,.0087,45.86, .0252, .0129
Ni2316,231.604 {445},In2306,ppm, .0001,.0002,189.3, .0000, .0002
P_1782,178.284 {489},In2306,ppm, -.0010,.0021,200.7, .0004, -.0025
Pb2203,220.353 {453},In2306,ppm, .0003,.0003,120.4, .0000, .0005
S_1820,182.034 {485},Y_2243,ppm, -.4634,.3276,70.69, -.6950, -.2318
Sb2068,206.833 {463},Y_2243,ppm, -.0006,.0004,66.82, -.0010, -.0003

```
Se1960,196.090 {472},Y_2243,ppm, .0006,.0005,79.82, .0009, .0002
Si2516,251.611 {134},Y_3710,ppm, .0031,.0029,91.50, .0011, .0051
Sn1899,189.989 {477},In2306,ppm, .0000,.0002,750.1, -.0002, .0001
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,619.0, .0000, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0002,.0003,154.7, .0004, .0000
Tl1908,190.856 {477},In2306,ppm, .0002,.0003,126.4, .0000, .0004
V_2924,292.402 {115},Y_3600,ppm, .0000,.0001,734.0, .0001, -.0001
Zn2062,206.200 {463},In2306,ppm, .0000,.0000,47.81, .0001, .0000

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1019.1,.31079,.03049,1019.4,1018.9
In2306,230.606 {446},Cts/S, 12042.,164.51,1.3661,12158.,11926.
Y_2243,224.306 {450},Cts/S, 19605.,231.99,1.1834,19769.,19441.
Y_3600,360.073 { 94},Cts/S, 189730.,7259.5,3.8262,194870.,184600.
Y_3710,371.030 { 91},Cts/S, 50157.,278.07,.55440,50354.,49961.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61963-c-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:31:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0004,.0004,105.2, -.0001, -.0007
Al3082,308.215 {109},In2306,ppm, .0625,.0047,7.571, .0591, .0658
As1890,189.042 {478},Y_2243,ppm, .0041,.0001,2.478, .0040, .0042
B_2496,249.678 {135},Y_3710,ppm, .1774,.0039,2.174, .1801, .1747
Ba4554,455.403 { 74},Y_3710,ppm, .0563,.0006,1.140, .0568, .0559
Be3130,313.042 {108},Y_3710,ppm, .0030,.0000,.4752, .0030, .0030
Ca3158,315.887 {107},In2306,ppm, 176.1,1.263,.7169, 177.0, 175.2
Ca3181,318.128 {106},In2306,ppm, 170.2,.9231,.5423, 170.9, 169.6
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,79.28, .0002, .0001
Co2286,228.616 {447},In2306,ppm, .0002,.0000,7.904, .0002, .0002
Cr2677,267.716 {126},Y_3600,ppm, .0066,.0003,3.830, .0068, .0065
Cu3247,324.754 {104},Y_3600,ppm, .0111,.0001,.5174, .0112, .0111
Fe2404,240.488 {140},In2306,ppm, .1339,.0019,1.389, .1353, .1326
K_7664,766.490 { 44},Y_3710,ppm, 13.37,.1032,.7714, 13.45, 13.30
K_7698,769.896 { 44},Y_3710,ppm, 13.58,.1588,1.170, 13.69, 13.46
Li6707,670.784 { 50},Y_3710,ppm, .0293,.0004,1.348, .0291, .0296
Mg2790,279.079 {121},Y_3710,ppm, 4.284,.0481,1.124, 4.318, 4.250
Mn2576,257.610 {131},Y_3600,ppm, .0112,.0001,.6593, .0113, .0112
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0114,.0000,.0077, .0114, .0114
Mo2020,202.030 {467},Y_2243,ppm, .0499,.0010,2.102, .0507, .0492
Na5895,589.592 { 57},Y_3710,ppm, 587.2,2.470,.4207, 588.9, 585.4
Na8183,818.326 { 41},Y_3710,ppm, 602.9,4.919,.8159, 606.4, 599.4
Ni2316,231.604 {445},In2306,ppm, .0133,.0002,1.748, .0135, .0132
P_1782,178.284 {489},In2306,ppm, 1.944,.0575,2.960, 1.985, 1.904
Pb2203,220.353 {453},In2306,ppm, .0002,.0004,239.0, -.0001, .0005
S_1820,182.034 {485},Y_2243,ppm, -27120.,819.6,3.022, -27700., -26540.
Sb2068,206.833 {463},Y_2243,ppm, -.0032,.0010,29.90, -.0039, -.0026
Se1960,196.090 {472},Y_2243,ppm, .0010,.0017,175.3, .0021, -.0002
Si2516,251.611 {134},Y_3710,ppm, 8.611,.1076,1.249, 8.687, 8.535
Sn1899,189.989 {477},In2306,ppm, -.0003,.0013,431.7, -.0012, .0006
```

Sr4215,421.552 { 80},Y_3710,ppm, .4010,.0047,1.179, .4044, .3977
Ti3349,334.904 {101},Y_3600,ppm, .0023,.0002,10.09, .0021, .0024
Tl1908,190.856 {477},In2306,ppm, -.0025,.0005,19.11, -.0022, -.0029
V_2924,292.402 {115},Y_3600,ppm, .0134,.0001,.8280, .0135, .0133
Zn2062,206.200 {463},In2306,ppm, .0149,.0005,3.352, .0152, .0145

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 957.80,2.3958,.25013,956.11,959.49
In2306,230.606 {446},Cts/S, 10743.,252.45,2.3499,10564.,10922.
Y_2243,224.306 {450},Cts/S, 18059.,440.62,2.4399,17747.,18370.
Y_3600,360.073 { 94},Cts/S, 166570.,2063.8,1.2390,168030.,165110.
Y_3710,371.030 { 91},Cts/S, 48593.,417.72,.85963,48297.,48888.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61909-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:33:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0018,.0013,70.56, -.0009, -.0027
Al3082,308.215 {109},In2306,ppm, -.0071,.0127,178.7, .0019, -.0160
As1890,189.042 {478},Y_2243,ppm, .0025,.0002,8.471, .0024, .0027
B_2496,249.678 {135},Y_3710,ppm, .2669,.0001,.0549, .2670, .2667
Ba4554,455.403 { 74},Y_3710,ppm, .2244,.0017,.7609, .2232, .2256
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,46.22, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 98.92,1.091,1.103, 98.15, 99.69
Ca3181,318.128 {106},In2306,ppm, 95.23,1.014,1.065, 94.52, 95.95
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,15.56, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,21.41, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0009,.0002,23.26, .0011, .0008
Cu3247,324.754 {104},Y_3600,ppm, .0002,.0003,176.9, .0004, .0000
Fe2404,240.488 {140},In2306,ppm, .1761,.0000,.0216, .1761, .1761
K_7664,766.490 { 44},Y_3710,ppm, 8.745,.0359,.4103, 8.720, 8.771
K_7698,769.896 { 44},Y_3710,ppm, 8.906,.0060,.0677, 8.902, 8.910
Li6707,670.784 { 50},Y_3710,ppm, .0465,.0002,.5170, .0467, .0463
Mg2790,279.079 {121},Y_3710,ppm, 16.12,.0716,.4441, 16.17, 16.07
Mn2576,257.610 {131},Y_3600,ppm, .1841,.0167,9.048, .1723, .1958
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1940,.0014,.7385, .1930, .1950
Mo2020,202.030 {467},Y_2243,ppm, .0032,.0001,3.953, .0031, .0032
Na5895,589.592 { 57},Y_3710,ppm, 51.66,.3584,.6938, 51.40, 51.91
Na8183,818.326 { 41},Y_3710,ppm, 50.18,.3514,.7003, 49.93, 50.42
Ni2316,231.604 {445},In2306,ppm, .0002,.0001,62.28, .0001, .0003
P_1782,178.284 {489},In2306,ppm, .1182,.0001,.1262, .1181, .1183
Pb2203,220.353 {453},In2306,ppm, .0012,.0002,19.49, .0011, .0014
S_1820,182.034 {485},Y_2243,ppm, -2435.,27.16,1.116, -2416., -2454.
Sb2068,206.833 {463},Y_2243,ppm, -.0032,.0032,99.41, -.0055, -.0010
Se1960,196.090 {472},Y_2243,ppm, .0020,.0006,31.37, .0015, .0024
Si2516,251.611 {134},Y_3710,ppm, 12.29,.0058,.0474, 12.29, 12.30
Sn1899,189.989 {477},In2306,ppm, .0002,.0000,14.99, .0002, .0002
Sr4215,421.552 { 80},Y_3710,ppm, .6684,.0064,.9594, .6639, .6729
Ti3349,334.904 {101},Y_3600,ppm, .0008,.0001,16.47, .0009, .0007
Tl1908,190.856 {477},In2306,ppm, .0005,.0000,7.139, .0005, .0005

V_2924,292.402 {115},Y_3600,ppm, .0007,.0003,36.29, .0009, .0005
Zn2062,206.200 {463},In2306,ppm, .0035,.0000,.0460, .0035, .0035

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 984.26,5.3677,.54535,988.06,980.47
In2306,230.606 {446},Cts/S, 11820.,90.176,.76294,11883.,11756.
Y_2243,224.306 {450},Cts/S, 19048.,174.35,.91534,19171.,18925.
Y_3600,360.073 { 94},Cts/S, 183940.,13093.,7.1183,193190.,174680.
Y_3710,371.030 { 91},Cts/S, 49841.,409.49,.82159,49551.,50131.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61909-d-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:36:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0007,1380., .0006, -.0004
Al3082,308.215 {109},In2306,ppm, .0186,.0048,25.90, .0152, .0221
As1890,189.042 {478},Y_2243,ppm, .0047,.0002,3.657, .0046, .0049
B_2496,249.678 {135},Y_3710,ppm, .8275,.0223,2.693, .8433, .8118
Ba4554,455.403 { 74},Y_3710,ppm, .1065,.0021,2.009, .1080, .1050
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,57.57, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 136.4,1.848,1.354, 137.7, 135.1
Ca3181,318.128 {106},In2306,ppm, 131.4,1.577,1.200, 132.5, 130.3
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,19.74, .0003, .0002
Co2286,228.616 {447},In2306,ppm, .0000,.0002,1098., -.0001, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0000,2.339, .0011, .0011
Cu3247,324.754 {104},Y_3600,ppm, .0018,.0001,6.139, .0019, .0018
Fe2404,240.488 {140},In2306,ppm, .0392,.0010,2.458, .0399, .0385
K_7664,766.490 { 44},Y_3710,ppm, 9.727,.1738,1.787, 9.850, 9.604
K_7698,769.896 { 44},Y_3710,ppm, 9.858,.1658,1.682, 9.975, 9.741
Li6707,670.784 { 50},Y_3710,ppm, .0547,.0001,.1939, .0548, .0546
Mg2790,279.079 {121},Y_3710,ppm, 24.14,.4207,1.743, 24.44, 23.84
Mn2576,257.610 {131},Y_3600,ppm, .0084,.0006,6.833, .0080, .0088
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0096,.0007,7.378, .0101, .0091
Mo2020,202.030 {467},Y_2243,ppm, .0026,.0007,27.58, .0031, .0021
Na5895,589.592 { 57},Y_3710,ppm, 81.49,1.475,1.810, 82.53, 80.45
Na8183,818.326 { 41},Y_3710,ppm, 80.01,1.664,2.079, 81.18, 78.83
Ni2316,231.604 {445},In2306,ppm, .0002,.0001,41.44, .0003, .0002
P_1782,178.284 {489},In2306,ppm, .0941,.0016,1.668, .0952, .0930
Pb2203,220.353 {453},In2306,ppm, .0017,.0007,41.82, .0022, .0012
S_1820,182.034 {485},Y_2243,ppm, -4051.,14.63,.3612, -4062., -4041.
Sb2068,206.833 {463},Y_2243,ppm, -.0019,.0004,19.66, -.0022, -.0016
Se1960,196.090 {472},Y_2243,ppm, .0026,.0002,8.546, .0028, .0024
Si2516,251.611 {134},Y_3710,ppm, 14.31,.2746,1.918, 14.51, 14.12
Sn1899,189.989 {477},In2306,ppm, -.0003,.0007,243.0, .0002, -.0007
Sr4215,421.552 { 80},Y_3710,ppm, 1.117,.0226,2.020, 1.133, 1.101
Ti3349,334.904 {101},Y_3600,ppm, .0017,.0001,3.394, .0017, .0017
Tl1908,190.856 {477},In2306,ppm, .0000,.0013,3023., -.0010, .0009
V_2924,292.402 {115},Y_3600,ppm, .0118,.0007,6.006, .0113, .0123
Zn2062,206.200 {463},In2306,ppm, .0026,.0001,5.201, .0027, .0025

```
[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 955.59,15.456,1.6175,944.66,966.52
In2306,230.606 {446},Cts/S, 11778.,41.241,.35016,11749.,11807.
Y_2243,224.306 {450},Cts/S, 19077.,72.650,.38084,19025.,19128.
Y_3600,360.073 { 94},Cts/S, 178520.,11138.,6.2394,186390.,170640.
Y_3710,371.030 { 91},Cts/S, 48408.,1082.6,2.2364,47643.,49174.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61909-d-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:38:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0006,.0002,35.01, -.0007, -.0004
Al3082,308.215 {109},In2306,ppm, -.0194,.0057,29.25, -.0154, -.0234
As1890,189.042 {478},Y_2243,ppm, .0044,.0000,.5629, .0044, .0044
B_2496,249.678 {135},Y_3710,ppm, .4092,.0000,.0093, .4092, .4092
Ba4554,455.403 { 74},Y_3710,ppm, .1469,.0011,.7822, .1461, .1477
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,538.9, .0000, -.0001
Ca3158,315.887 {107},In2306,ppm, 115.1,2.577,2.239, 113.3, 116.9
Ca3181,318.128 {106},In2306,ppm, 111.6,2.108,1.889, 110.1, 113.1
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0001,30.17, .0003, .0002
Co2286,228.616 {447},In2306,ppm, .0000,.0001,253.2, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0013,.0002,15.98, .0011, .0014
Cu3247,324.754 {104},Y_3600,ppm, .0014,.0004,28.06, .0017, .0011
Fe2404,240.488 {140},In2306,ppm, .0112,.0022,20.03, .0096, .0128
K_7664,766.490 { 44},Y_3710,ppm, 11.10,.0525,.4726, 11.14, 11.06
K_7698,769.896 { 44},Y_3710,ppm, 11.24,.0196,.1746, 11.25, 11.22
Li6707,670.784 { 50},Y_3710,ppm, .0406,.0001,.2940, .0405, .0407
Mg2790,279.079 {121},Y_3710,ppm, 19.59,.2603,1.329, 19.40, 19.77
Mn2576,257.610 {131},Y_3600,ppm, .0017,.0001,7.348, .0018, .0016
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0019,.0003,14.20, .0017, .0021
Mo2020,202.030 {467},Y_2243,ppm, .0024,.0001,5.889, .0023, .0025
Na5895,589.592 { 57},Y_3710,ppm, 46.62,.0793,.1701, 46.56, 46.67
Na8183,818.326 { 41},Y_3710,ppm, 45.36,.0631,.1392, 45.40, 45.31
Ni2316,231.604 {445},In2306,ppm, .0006,.0000,8.577, .0006, .0005
P_1782,178.284 {489},In2306,ppm, .2006,.0029,1.468, .2027, .1986
Pb2203,220.353 {453},In2306,ppm, .0014,.0001,10.02, .0015, .0013
S_1820,182.034 {485},Y_2243,ppm, -2612.,39.01,1.493, -2639., -2584.
Sb2068,206.833 {463},Y_2243,ppm, -.0015,.0004,25.04, -.0018, -.0013
Se1960,196.090 {472},Y_2243,ppm, .0007,.0016,235.7, .0018, -.0004
Si2516,251.611 {134},Y_3710,ppm, 12.71,.0907,.7138, 12.65, 12.78
Sn1899,189.989 {477},In2306,ppm, -.0005,.0001,23.59, -.0006, -.0004
Sr4215,421.552 { 80},Y_3710,ppm, .7113,.0080,1.122, .7057, .7170
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0002,14.75, .0012, .0010
Tl1908,190.856 {477},In2306,ppm, -.0001,.0013,1174., .0008, -.0011
V_2924,292.402 {115},Y_3600,ppm, .0121,.0001,1.064, .0121, .0120
Zn2062,206.200 {463},In2306,ppm, .0030,.0000,1.397, .0030, .0030

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 986.85,.85737,.08688,987.46,986.24
```

In2306,230.606 {446},Cts/S, 11790.,125.55,1.0649,11701.,11879.
Y_2243,224.306 {450},Cts/S, 19097.,231.22,1.2107,18934.,19261.
Y_3600,360.073 { 94},Cts/S, 179660.,2369.8,1.3191,181340.,177980.
Y_3710,371.030 { 91},Cts/S, 49653.,369.06,.74326,49392.,49914.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61909-d-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:41:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0003,44.76, .0005, .0009
Al3082,308.215 {109},In2306,ppm, .0136,.0149,109.7, .0030, .0241
As1890,189.042 {478},Y_2243,ppm, .0037,.0000,1.216, .0037, .0038
B_2496,249.678 {135},Y_3710,ppm, .7287,.0433,5.943, .6981, .7593
Ba4554,455.403 { 74},Y_3710,ppm, .0894,.0050,5.550, .0859, .0929
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,175.9, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 130.7,7.763,5.942, 125.2, 136.1
Ca3181,318.128 {106},In2306,ppm, 126.5,7.048,5.571, 121.5, 131.5
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0000,2.290, .0003, .0003
Co2286,228.616 {447},In2306,ppm, .0015,.0001,4.226, .0015, .0015
Cr2677,267.716 {126},Y_3600,ppm, .0012,.0001,7.345, .0011, .0012
Cu3247,324.754 {104},Y_3600,ppm, .0005,.0005,100.4, .0001, .0008
Fe2404,240.488 {140},In2306,ppm, .2691,.0155,5.750, .2581, .2800
K_7664,766.490 { 44},Y_3710,ppm, 10.73,.5457,5.086, 10.34, 11.12
K_7698,769.896 { 44},Y_3710,ppm, 10.84,.5154,4.755, 10.47, 11.20
Li6707,670.784 { 50},Y_3710,ppm, .0494,.0036,7.226, .0469, .0519
Mg2790,279.079 {121},Y_3710,ppm, 25.45,1.578,6.201, 24.34, 26.57
Mn2576,257.610 {131},Y_3600,ppm, .7325,.0307,4.193, .7542, .7108
Mn2576-2,257.610 {131}2,Y_3710,ppm, .7579,.0488,6.445, .7233, .7924
Mo2020,202.030 {467},Y_2243,ppm, .0043,.0007,16.16, .0048, .0038
Na5895,589.592 { 57},Y_3710,ppm, 64.68,3.560,5.505, 62.16, 67.20
Na8183,818.326 { 41},Y_3710,ppm, 62.99,3.622,5.750, 60.43, 65.56
Ni2316,231.604 {445},In2306,ppm, .0026,.0002,9.192, .0027, .0024
P_1782,178.284 {489},In2306,ppm, .0206,.0012,5.864, .0215, .0198
Pb2203,220.353 {453},In2306,ppm, .0013,.0000,2.077, .0013, .0013
S_1820,182.034 {485},Y_2243,ppm, -4506.,241.9,5.368, -4677., -4335.
Sb2068,206.833 {463},Y_2243,ppm, -.0024,.0004,14.97, -.0027, -.0022
Se1960,196.090 {472},Y_2243,ppm, .0023,.0011,48.43, .0015, .0031
Si2516,251.611 {134},Y_3710,ppm, 10.18,.6120,6.015, 9.743, 10.61
Sn1899,189.989 {477},In2306,ppm, .0003,.0004,140.5, .0006, .0000
Sr4215,421.552 { 80},Y_3710,ppm, 1.109,.0699,6.300, 1.060, 1.158
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0000,.0729, .0011, .0011
Tl1908,190.856 {477},In2306,ppm, -.0006,.0004,69.26, -.0010, -.0003
V_2924,292.402 {115},Y_3600,ppm, .0068,.0008,11.69, .0073, .0062
Zn2062,206.200 {463},In2306,ppm, .0062,.0003,4.106, .0064, .0061

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 982.12,29.412,2.9948,1002.9,961.32
In2306,230.606 {446},Cts/S, 11320.,432.86,3.8238,11014.,11626.
Y_2243,224.306 {450},Cts/S, 18294.,756.88,4.1373,17759.,18829.
Y_3600,360.073 { 94},Cts/S, 180980.,5820.2,3.2159,176860.,185090.

```
Y_3710,371.030 { 91},Cts/S, 49674.,1454.1,2.9272,50702.,48646.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=PDS 600-61946-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:43:27
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5418,.0244,4.509, .5591, .5245
Al3082,308.215 {109},In2306,ppm, 10.55,.3150,2.985, 10.33, 10.78
As1890,189.042 {478},Y_2243,ppm, 1.032,.0032,.3142, 1.029, 1.034
B_2496,249.678 {135},Y_3710,ppm, 1.099,.0254,2.311, 1.081, 1.117
Ba4554,455.403 { 74},Y_3710,ppm, 1.109,.0271,2.445, 1.090, 1.128
Be3130,313.042 {108},Y_3710,ppm, .5057,.0126,2.490, .4968, .5146
Ca3158,315.887 {107},In2306,ppm, 59.34,1.959,3.301, 57.95, 60.72
Ca3181,318.128 {106},In2306,ppm, 57.62,1.822,3.163, 56.33, 58.90
Cd2288,228.802 {447},Y_2243,ppm, .5044,.0058,1.155, .5003, .5085
Co2286,228.616 {447},In2306,ppm, .9632,.0124,1.285, .9544, .9719
Cr2677,267.716 {126},Y_3600,ppm, 1.012,.0517,5.115, 1.048, .9749
Cu3247,324.754 {104},Y_3600,ppm, 1.065,.0520,4.886, 1.102, 1.028
Fe2404,240.488 {140},In2306,ppm, 10.24,.3344,3.266, 10.00, 10.47
K_7664,766.490 { 44},Y_3710,ppm, 17.34,.3621,2.088, 17.08, 17.59
K_7698,769.896 { 44},Y_3710,ppm, 17.49,.4693,2.682, 17.16, 17.83
Li6707,670.784 { 50},Y_3710,ppm, 1.040,.0250,2.408, 1.022, 1.057
Mg2790,279.079 {121},Y_3710,ppm, 14.92,.3894,2.610, 14.64, 15.20
Mn2576,257.610 {131},Y_3600,ppm, 1.144,.0466,4.071, 1.177, 1.111
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.136,.0279,2.459, 1.116, 1.156
Mo2020,202.030 {467},Y_2243,ppm, 1.035,.0104,1.008, 1.028, 1.042
Na5895,589.592 { 57},Y_3710,ppm, 274.8,16.27,5.921, 263.3, 286.3
Na8183,818.326 { 41},Y_3710,ppm, 283.2,6.524,2.304, 278.6, 287.8
Ni2316,231.604 {445},In2306,ppm, .9736,.0110,1.133, .9658, .9814
P_1782,178.284 {489},In2306,ppm, 1.974,.0311,1.577, 1.952, 1.996
Pb2203,220.353 {453},In2306,ppm, .9710,.0108,1.111, .9634, .9787
S_1820,182.034 {485},Y_2243,ppm, -26260.,278.8,1.062, -26070., -26460.
Sb2068,206.833 {463},Y_2243,ppm, 1.005,.0016,.1623, 1.006, 1.004
Se1960,196.090 {472},Y_2243,ppm, 1.047,.0100,.9549, 1.039, 1.054
Si2516,251.611 {134},Y_3710,ppm, 5.523,.1389,2.515, 5.425, 5.621
Sn1899,189.989 {477},In2306,ppm, 1.005,.0146,1.454, .9947, 1.015
Sr4215,421.552 { 80},Y_3710,ppm, .8957,.0211,2.350, .8808, .9106
Ti3349,334.904 {101},Y_3600,ppm, 1.054,.0506,4.798, 1.090, 1.019
Tl1908,190.856 {477},In2306,ppm, .9829,.0065,.6658, .9783, .9875
V_2924,292.402 {115},Y_3600,ppm, 1.050,.0523,4.985, 1.087, 1.013
Zn2062,206.200 {463},In2306,ppm, .9543,.0121,1.271, .9458, .9629

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 968.59,18.299,1.8893,981.53,955.65
In2306,230.606 {446},Cts/S, 11362.,119.66,1.0532,11446.,11277.
Y_2243,224.306 {450},Cts/S, 18769.,191.07,1.0180,18904.,18634.
Y_3600,360.073 { 94},Cts/S, 170370.,6541.5,3.8395,165750.,175000.
Y_3710,371.030 { 91},Cts/S, 49446.,615.46,1.2447,49881.,49010.

[Sample Header]
```

Method=ICP6500Metals_TRY3(v1059)
SampleName=SD 600-61946-a-1-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:45:40
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0010,.0003,31.09, .0012, .0008
Al3082,308.215 {109},In2306,ppm, .0702,.0029,4.115, .0722, .0681
As1890,189.042 {478},Y_2243,ppm, .0023,.0001,3.419, .0024, .0023
B_2496,249.678 {135},Y_3710,ppm, .0210,.0024,11.34, .0193, .0227
Ba4554,455.403 { 74},Y_3710,ppm, .0164,.0011,6.500, .0157, .0172
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,32.00, .0003, .0002
Ca3158,315.887 {107},In2306,ppm, 10.15,.6483,6.388, 9.690, 10.61
Ca3181,318.128 {106},In2306,ppm, 9.828,.6585,6.701, 9.362, 10.29
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0002,131.5, .0000, .0003
Co2286,228.616 {447},In2306,ppm, .0005,.0004,88.49, .0002, .0008
Cr2677,267.716 {126},Y_3600,ppm, .0011,.0002,18.96, .0012, .0009
Cu3247,324.754 {104},Y_3600,ppm, .0004,.0000,9.813, .0005, .0004
Fe2404,240.488 {140},In2306,ppm, .0640,.0072,11.21, .0590, .0691
K_7664,766.490 { 44},Y_3710,ppm, 1.517,.0983,6.483, 1.447, 1.586
K_7698,769.896 { 44},Y_3710,ppm, 1.546,.1014,6.562, 1.474, 1.617
Li6707,670.784 { 50},Y_3710,ppm, .0013,.0000,1.405, .0013, .0013
Mg2790,279.079 {121},Y_3710,ppm, 1.148,.0904,7.878, 1.084, 1.212
Mn2576,257.610 {131},Y_3600,ppm, .0221,.0002,1.067, .0219, .0222
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0252,.0014,5.567, .0242, .0262
Mo2020,202.030 {467},Y_2243,ppm, .0032,.0010,32.59, .0024, .0039
Na5895,589.592 { 57},Y_3710,ppm, 57.66,3.449,5.982, 55.22, 60.10
Na8183,818.326 { 41},Y_3710,ppm, 56.84,3.388,5.961, 54.45, 59.24
Ni2316,231.604 {445},In2306,ppm, .0007,.0005,72.40, .0004, .0011
P_1782,178.284 {489},In2306,ppm, .1764,.0022,1.233, .1779, .1749
Pb2203,220.353 {453},In2306,ppm, .0001,.0005,839.9, -.0003, .0004
S_1820,182.034 {485},Y_2243,ppm, -5149.,48.22,.9365, -5183., -5115.
Sb2068,206.833 {463},Y_2243,ppm, .0023,.0011,49.64, .0015, .0031
Se1960,196.090 {472},Y_2243,ppm, .0014,.0003,18.37, .0016, .0012
Si2516,251.611 {134},Y_3710,ppm, .9369,.0578,6.168, .8960, .9778
Sn1899,189.989 {477},In2306,ppm, .0008,.0017,206.7, -.0004, .0020
Sr4215,421.552 { 80},Y_3710,ppm, .0797,.0055,6.889, .0759, .0836
Ti3349,334.904 {101},Y_3600,ppm, .0016,.0005,28.07, .0013, .0020
Tl1908,190.856 {477},In2306,ppm, .0022,.0001,4.576, .0022, .0023
V_2924,292.402 {115},Y_3600,ppm, .0004,.0001,28.84, .0004, .0005
Zn2062,206.200 {463},In2306,ppm, .0030,.0003,10.75, .0027, .0032

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 971.25,33.358,3.4346,994.84,947.67
In2306,230.606 {446},Cts/S, 12256.,92.764,.75687,12191.,12322.
Y_2243,224.306 {450},Cts/S, 19735.,105.21,.53310,19661.,19810.
Y_3600,360.073 { 94},Cts/S, 187510.,1689.9,.90125,188700.,186310.
Y_3710,371.030 { 91},Cts/S, 48271.,1787.4,3.7029,49535.,47007.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin

Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:48:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2517,.0046,1.822, .2550, .2485
Al3082,308.215 {109},In2306,ppm, 2.644,.3677,13.90, 2.384, 2.904
As1890,189.042 {478},Y_2243,ppm, .5049,.0031,.6133, .5027, .5071
B_2496,249.678 {135},Y_3710,ppm, .5264,.0654,12.42, .4801, .5726
Ba4554,455.403 { 74},Y_3710,ppm, .5375,.0626,11.64, .4933, .5818
Be3130,313.042 {108},Y_3710,ppm, .5353,.0651,12.16, .4893, .5814
Ca3158,315.887 {107},In2306,ppm, 13.54,1.689,12.47, 12.35, 14.73
Ca3181,318.128 {106},In2306,ppm, 13.18,1.719,13.04, 11.96, 14.40
Cd2288,228.802 {447},Y_2243,ppm, .4924,.0006,.1223, .4919, .4928
Co2286,228.616 {447},In2306,ppm, .4840,.0012,.2456, .4831, .4848
Cr2677,267.716 {126},Y_3600,ppm, .4900,.0114,2.317, .4980, .4819
Cu3247,324.754 {104},Y_3600,ppm, .4968,.0085,1.718, .5028, .4907
Fe2404,240.488 {140},In2306,ppm, 2.635,.3325,12.62, 2.400, 2.870
K_7664,766.490 { 44},Y_3710,ppm, 13.40,1.487,11.10, 12.35, 14.45
K_7698,769.896 { 44},Y_3710,ppm, 13.51,1.556,11.52, 12.41, 14.61
Li6707,670.784 { 50},Y_3710,ppm, .5421,.0616,11.36, .4986, .5857
Mg2790,279.079 {121},Y_3710,ppm, 5.252,.6998,13.32, 4.757, 5.747
Mn2576,257.610 {131},Y_3600,ppm, .4981,.0079,1.581, .5037, .4926
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5430,.0664,12.23, .4960, .5899
Mo2020,202.030 {467},Y_2243,ppm, .5281,.0010,.1969, .5274, .5289
Na5895,589.592 { 57},Y_3710,ppm, 13.51,1.503,11.12, 12.45, 14.58
Na8183,818.326 { 41},Y_3710,ppm, 13.14,1.595,12.14, 12.01, 14.27
Ni2316,231.604 {445},In2306,ppm, .4879,.0004,.0872, .4876, .4882
P_1782,178.284 {489},In2306,ppm, .4953,.0007,.1396, .4948, .4958
Pb2203,220.353 {453},In2306,ppm, .4819,.0017,.3432, .4807, .4831
S_1820,182.034 {485},Y_2243,ppm, -212.7,.2605,.1225, -212.5, -212.9
Sb2068,206.833 {463},Y_2243,ppm, .5024,.0001,.0185, .5024, .5025
Se1960,196.090 {472},Y_2243,ppm, .5067,.0002,.0386, .5069, .5066
Si2516,251.611 {134},Y_3710,ppm, 1.053,.1307,12.41, .9610, 1.146
Sn1899,189.989 {477},In2306,ppm, .5111,.0011,.2185, .5103, .5119
Sr4215,421.552 { 80},Y_3710,ppm, .2703,.0325,12.03, .2473, .2933
Ti3349,334.904 {101},Y_3600,ppm, .5013,.0081,1.617, .5070, .4955
Tl1908,190.856 {477},In2306,ppm, .4953,.0002,.0433, .4955, .4951
V_2924,292.402 {115},Y_3600,ppm, .5048,.0086,1.697, .5109, .4987
Zn2062,206.200 {463},In2306,ppm, .4757,.0009,.1957, .4764, .4751

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 941.91,85.664,9.0947,1002.5,881.34
In2306,230.606 {446},Cts/S, 11999.,28.434,.23697,12019.,11979.
Y_2243,224.306 {450},Cts/S, 19450.,58.123,.29883,19491.,19409.
Y_3600,360.073 { 94},Cts/S, 187490.,2065.9,1.1019,186030.,188950.
Y_3710,371.030 { 91},Cts/S, 46940.,3972.5,8.4628,49749.,44132.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=

Custom ID3=
Run Time=9/28/2012 13:50:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0046,.0006,12.87, .0042, .0050
Al3082,308.215 {109},In2306,ppm, .1039,.0114,11.01, .0958, .1120
As1890,189.042 {478},Y_2243,ppm, .0099,.0000,.3461, .0099, .0099
B_2496,249.678 {135},Y_3710,ppm, .0114,.0028,24.72, .0094, .0134
Ba4554,455.403 { 74},Y_3710,ppm, .0111,.0007,6.356, .0106, .0116
Be3130,313.042 {108},Y_3710,ppm, .0054,.0004,6.581, .0052, .0057
Ca3158,315.887 {107},In2306,ppm, .1178,.0003,.2648, .1176, .1180
Ca3181,318.128 {106},In2306,ppm, .0884,.0128,14.50, .0975, .0794
Cd2288,228.802 {447},Y_2243,ppm, .0052,.0005,8.859, .0049, .0055
Co2286,228.616 {447},In2306,ppm, .0101,.0006,6.323, .0096, .0105
Cr2677,267.716 {126},Y_3600,ppm, .0100,.0007,6.940, .0095, .0105
Cu3247,324.754 {104},Y_3600,ppm, .0095,.0002,2.521, .0093, .0096
Fe2404,240.488 {140},In2306,ppm, .1064,.0045,4.233, .1032, .1095
K_7664,766.490 { 44},Y_3710,ppm, .6266,.0281,4.491, .6067, .6465
K_7698,769.896 { 44},Y_3710,ppm, .6958,.0591,8.493, .6540, .7375
Li6707,670.784 { 50},Y_3710,ppm, .0107,.0012,10.72, .0099, .0116
Mg2790,279.079 {121},Y_3710,ppm, .0952,.0229,24.05, .0790, .1114
Mn2576,257.610 {131},Y_3600,ppm, .0097,.0007,7.408, .0092, .0102
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0110,.0004,4.048, .0107, .0113
Mo2020,202.030 {467},Y_2243,ppm, .0117,.0012,10.32, .0108, .0125
Na5895,589.592 { 57},Y_3710,ppm, .6381,.0475,7.452, .6045, .6717
Na8183,818.326 { 41},Y_3710,ppm, .7599,.0266,3.502, .7411, .7788
Ni2316,231.604 {445},In2306,ppm, .0101,.0006,5.861, .0097, .0106
P_1782,178.284 {489},In2306,ppm, .0088,.0003,2.903, .0086, .0090
Pb2203,220.353 {453},In2306,ppm, .0104,.0016,15.27, .0093, .0115
S_1820,182.034 {485},Y_2243,ppm, -.4753,.2414,50.78, -.6460, -.3047
Sb2068,206.833 {463},Y_2243,ppm, .0115,.0000,.0098, .0115, .0115
Se1960,196.090 {472},Y_2243,ppm, .0108,.0011,9.922, .0100, .0115
Si2516,251.611 {134},Y_3710,ppm, .0098,.0021,21.75, .0083, .0113
Sn1899,189.989 {477},In2306,ppm, .0104,.0008,7.860, .0098, .0109
Sr4215,421.552 { 80},Y_3710,ppm, .0054,.0003,5.468, .0051, .0056
Ti3349,334.904 {101},Y_3600,ppm, .0101,.0007,6.517, .0096, .0105
Tl1908,190.856 {477},In2306,ppm, .0102,.0020,19.70, .0088, .0116
V_2924,292.402 {115},Y_3600,ppm, .0097,.0004,4.550, .0094, .0100
Zn2062,206.200 {463},In2306,ppm, .0101,.0006,6.119, .0096, .0105

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 995.31,36.631,3.6803,1021.2,969.41
In2306,230.606 {446},Cts/S, 12139.,287.83,2.3711,12343.,11936.
Y_2243,224.306 {450},Cts/S, 19901.,495.81,2.4913,20252.,19551.
Y_3600,360.073 { 94},Cts/S, 199660.,11434.,5.7266,207740.,191570.
Y_3710,371.030 { 91},Cts/S, 48696.,1809.9,3.7166,49976.,47417.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 13:52:41
Sample Type=Unk

Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0006,.0003,41.44, .0004, .0008
Al3082,308.215 {109},In2306,ppm, .0009,.0125,1326., -.0079, .0098
As1890,189.042 {478},Y_2243,ppm, -.0001,.0002,175.4, .0000, -.0003
B_2496,249.678 {135},Y_3710,ppm, .0012,.0036,296.4, -.0013, .0038
Ba4554,455.403 { 74},Y_3710,ppm, -.0002,.0000,28.23, -.0002, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,133.0, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, .0083,.0109,132.2, .0160, .0005
Ca3181,318.128 {106},In2306,ppm, .0023,.0089,381.6, .0087, -.0040
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,341.4, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0001,.0001,74.42, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0004,.0002,38.08, .0003, .0006
Cu3247,324.754 {104},Y_3600,ppm, -.0016,.0005,32.95, -.0012, -.0020
Fe2404,240.488 {140},In2306,ppm, .0023,.0001,4.025, .0022, .0023
K_7664,766.490 { 44},Y_3710,ppm, -.0226,.0036,16.01, -.0252, -.0200
K_7698,769.896 { 44},Y_3710,ppm, -.1051,.0369,35.14, -.1312, -.0790
Li6707,670.784 { 50},Y_3710,ppm, -.0008,.0009,118.8, -.0001, -.0015
Mg2790,279.079 {121},Y_3710,ppm, .0025,.0039,155.0, .0052, -.0002
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0000,30.39, -.0001, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0002,.0000,17.47, -.0002, -.0002
Mo2020,202.030 {467},Y_2243,ppm, -.0003,.0003,96.49, -.0005, -.0001
Na5895,589.592 { 57},Y_3710,ppm, -.0053,.0022,41.93, -.0069, -.0037
Na8183,818.326 { 41},Y_3710,ppm, .0180,.0515,285.5, .0544, -.0184
Ni2316,231.604 {445},In2306,ppm, .0000,.0001,284.9, .0001, .0000
P_1782,178.284 {489},In2306,ppm, .0002,.0001,48.15, .0003, .0002
Pb2203,220.353 {453},In2306,ppm, -.0002,.0009,545.5, .0005, -.0008
S_1820,182.034 {485},Y_2243,ppm, -.2896,.1437,49.62, -.3911, -.1880
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0028,293.0, -.0029, .0010
Se1960,196.090 {472},Y_2243,ppm, -.0007,.0004,58.65, -.0010, -.0004
Si2516,251.611 {134},Y_3710,ppm, .0061,.0021,34.93, .0046, .0076
Sn1899,189.989 {477},In2306,ppm, .0002,.0003,134.2, .0004, .0000
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,251.5, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0000,.0003,4422., -.0002, .0002
Tl1908,190.856 {477},In2306,ppm, .0010,.0008,77.66, .0005, .0016
V_2924,292.402 {115},Y_3600,ppm, -.0002,.0000,9.359, -.0002, -.0002
Zn2062,206.200 {463},In2306,ppm, -.0002,.0001,28.49, -.0002, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1106.3,82.499,7.4575,1164.6,1047.9
In2306,230.606 {446},Cts/S, 11944.,166.77,1.3962,12062.,11826.
Y_2243,224.306 {450},Cts/S, 19727.,211.48,1.0720,19877.,19578.
Y_3600,360.073 { 94},Cts/S, 196280.,515.15,.26245,196650.,195920.
Y_3710,371.030 { 91},Cts/S, 54526.,4200.4,7.7034,57497.,51556.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=mb 600-89798/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:16:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000

Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0002,39.17, -.0003, -.0006
Al3082,308.215 {109},In2306,ppm, -.0002,.0033,1409., -.0026, .0021
As1890,189.042 {478},Y_2243,ppm, -.0014,.0008,56.21, -.0020, -.0009
B_2496,249.678 {135},Y_3710,ppm, -.0017,.0010,62.20, -.0009, -.0024
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0001,60.70, .0001, .0003
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,233.3, .0000, -.0001
Ca3158,315.887 {107},In2306,ppm, .0017,.0123,715.7, .0104, -.0070
Ca3181,318.128 {106},In2306,ppm, -.0350,.0079,22.67, -.0294, -.0406
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0001,38.35, .0002, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0002,424.6, -.0002, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0009,.0001,7.097, .0008, .0009
Cu3247,324.754 {104},Y_3600,ppm, .0003,.0002,59.26, .0002, .0004
Fe2404,240.488 {140},In2306,ppm, .0070,.0010,14.18, .0077, .0063
K_7664,766.490 { 44},Y_3710,ppm, .0040,.0024,59.46, .0023, .0056
K_7698,769.896 { 44},Y_3710,ppm, -.2042,.0522,25.55, -.2411, -.1673
Li6707,670.784 { 50},Y_3710,ppm, -.0009,.0015,164.5, .0001, -.0019
Mg2790,279.079 {121},Y_3710,ppm, .0091,.0135,147.9, -.0004, .0186
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0000,25.24, .0001, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0007,.0004,50.51, .0010, .0005
Mo2020,202.030 {467},Y_2243,ppm, .0004,.0006,133.4, .0008, .0000
Na5895,589.592 { 57},Y_3710,ppm, -.0055,.0018,32.22, -.0067, -.0042
Na8183,818.326 { 41},Y_3710,ppm, .2636,.1589,60.26, .3760, .1513
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,16.64, .0005, .0004
P_1782,178.284 {489},In2306,ppm, .0233,.0001,.3720, .0232, .0233
Pb2203,220.353 {453},In2306,ppm, .0003,.0002,93.80, .0004, .0001
S_1820,182.034 {485},Y_2243,ppm, -1.725,.2998,17.38, -1.513, -1.937
Sb2068,206.833 {463},Y_2243,ppm, .0005,.0007,162.8, .0010, -.0001
Se1960,196.090 {472},Y_2243,ppm, -.0007,.0003,49.03, -.0004, -.0009
Si2516,251.611 {134},Y_3710,ppm, .0097,.0114,118.4, .0016, .0177
Sn1899,189.989 {477},In2306,ppm, .0299,.0001,.4691, .0300, .0298
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0002,128.7, .0000, -.0003
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0001,55.93, .0001, .0002
Tl1908,190.856 {477},In2306,ppm, .0003,.0003,133.0, .0000, .0005
V_2924,292.402 {115},Y_3600,ppm, -.0004,.0000,9.721, -.0004, -.0004
Zn2062,206.200 {463},In2306,ppm, .0030,.0002,5.106, .0031, .0029

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 935.20,157.00,16.788,1046.2,824.19
In2306,230.606 {446},Cts/S, 12074.,75.143,.62238,12020.,12127.
Y_2243,224.306 {450},Cts/S, 19394.,100.24,.51686,19323.,19465.
Y_3600,360.073 { 94},Cts/S, 190430.,3972.0,2.0858,187630.,193240.
Y_3710,371.030 { 91},Cts/S, 46294.,7952.4,17.178,51917.,40671.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=lcs 600-89798/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:19:03
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

```
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .4414,.0076,1.715, .4360, .4467
Al3082,308.215 {109},In2306,ppm, 100.0,6.227,6.226, 104.4, 95.61
As1890,189.042 {478},Y_2243,ppm, 1.328,.0005,.0359, 1.328, 1.328
B_2496,249.678 {135},Y_3710,ppm, .8157,.0570,6.987, .8561, .7754
Ba4554,455.403 { 74},Y_3710,ppm, 2.518,.0367,1.457, 2.544, 2.492
Be3130,313.042 {108},Y_3710,ppm, 1.503,.0998,6.639, 1.573, 1.432
Ca3158,315.887 {107},In2306,ppm, 100.7,6.529,6.482, 105.3, 96.10
Ca3181,318.128 {106},In2306,ppm, 96.31,6.194,6.432, 100.7, 91.93
Cd2288,228.802 {447},Y_2243,ppm, .6575,.0002,.0372, .6577, .6574
Co2286,228.616 {447},In2306,ppm, 1.326,.0014,.1071, 1.327, 1.325
Cr2677,267.716 {126},Y_3600,ppm, .9466,.0318,3.364, .9241, .9691
Cu3247,324.754 {104},Y_3600,ppm, 1.052,.0314,2.986, 1.029, 1.074
Fe2404,240.488 {140},In2306,ppm, 186.9,11.97,6.406, 195.4, 178.4
K_7664,766.490 { 44},Y_3710,ppm, 47.29,3.034,6.416, 49.44, 45.15
K_7698,769.896 { 44},Y_3710,ppm, 47.78,3.020,6.320, 49.92, 45.65
Li6707,670.784 { 50},Y_3710,ppm, .0947,.0065,6.869, .0993, .0901
Mg2790,279.079 {121},Y_3710,ppm, 39.95,2.578,6.454, 41.77, 38.12
Mn2576,257.610 {131},Y_3600,ppm, 4.960,.1588,3.200, 4.848, 5.073
Mn2576-2,257.610 {131}2,Y_3710,ppm, 5.149,.3346,6.498, 5.385, 4.912
Mo2020,202.030 {467},Y_2243,ppm, .8940,.0010,.1082, .8947, .8933
Na5895,589.592 { 57},Y_3710,ppm, 6.053,.3747,6.190, 6.318, 5.788
Na8183,818.326 { 41},Y_3710,ppm, 6.607,.4730,7.159, 6.941, 6.272
Ni2316,231.604 {445},In2306,ppm, 1.210,.0013,.1071, 1.211, 1.209
P_1782,178.284 {489},In2306,ppm, 7.687,.0037,.0479, 7.689, 7.684
Pb2203,220.353 {453},In2306,ppm, 1.350,.0020,.1455, 1.348, 1.351
S_1820,182.034 {485},Y_2243,ppm, -550.5,.5989,.1088, -550.0, -550.9
Sb2068,206.833 {463},Y_2243,ppm, .7330,.0106,1.442, .7404, .7255
Se1960,196.090 {472},Y_2243,ppm, 1.888,.0203,1.075, 1.873, 1.902
Si2516,251.611 {134},Y_3710,ppm, 2.642,.1695,6.416, 2.762, 2.523
Sn1899,189.989 {477},In2306,ppm, 1.622,.0048,.2980, 1.625, 1.618
Sr4215,421.552 { 80},Y_3710,ppm, 2.326,.0754,3.243, 2.379, 2.273
Ti3349,334.904 {101},Y_3600,ppm, 3.757,.1268,3.376, 3.667, 3.846
Tl1908,190.856 {477},In2306,ppm, 1.585,.0046,.2931, 1.582, 1.588
V_2924,292.402 {115},Y_3600,ppm, .6292,.0216,3.429, .6139, .6444
Zn2062,206.200 {463},In2306,ppm, 2.054,.0036,.1730, 2.057, 2.052

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 963.76,45.609,4.7324,931.51,996.01
In2306,230.606 {446},Cts/S, 11613.,5.4070,.04656,11610.,11617.
Y_2243,224.306 {450},Cts/S, 19713.,10.969,.05564,19706.,19721.
Y_3600,360.073 { 94},Cts/S, 187480.,4723.7,2.5196,190820.,184140.
Y_3710,371.030 { 91},Cts/S, 52493.,2605.9,4.9642,50650.,54335.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61831-a-1-f
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:21:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0006,268.7, -.0002, .0006
Al3082,308.215 {109},In2306,ppm, .0174,.0110,62.88, .0252, .0097
```

As1890,189.042 {478},Y_2243,ppm, -.0001,.0011,861.8, -.0009, .0006
B_2496,249.678 {135},Y_3710,ppm, .0024,.0006,26.38, .0028, .0019
Ba4554,455.403 { 74},Y_3710,ppm, .0008,.0000,5.488, .0008, .0007
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,31.07, .0003, .0002
Ca3158,315.887 {107},In2306,ppm, .6029,.0004,.0650, .6032, .6027
Ca3181,318.128 {106},In2306,ppm, .5439,.0004,.0767, .5442, .5436
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0004,85.62, .0002, .0008
Co2286,228.616 {447},In2306,ppm, .0007,.0009,127.9, .0001, .0014
Cr2677,267.716 {126},Y_3600,ppm, .0015,.0003,20.48, .0012, .0017
Cu3247,324.754 {104},Y_3600,ppm, .0025,.0002,9.786, .0023, .0026
Fe2404,240.488 {140},In2306,ppm, .3196,.0073,2.282, .3247, .3144
K_7664,766.490 { 44},Y_3710,ppm, .0693,.0130,18.77, .0601, .0785
K_7698,769.896 { 44},Y_3710,ppm, -.2188,.0204,9.337, -.2043, -.2332
Li6707,670.784 { 50},Y_3710,ppm, -.0015,.0002,15.19, -.0016, -.0013
Mg2790,279.079 {121},Y_3710,ppm, .0133,.0004,2.920, .0136, .0130
Mn2576,257.610 {131},Y_3600,ppm, .0053,.0001,1.261, .0052, .0053
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0063,.0001,2.050, .0063, .0062
Mo2020,202.030 {467},Y_2243,ppm, .0036,.0009,25.31, .0030, .0043
Na5895,589.592 { 57},Y_3710,ppm, .0992,.0056,5.653, .1032, .0953
Na8183,818.326 { 41},Y_3710,ppm, .2436,.2485,102.0, .4193, .0678
Ni2316,231.604 {445},In2306,ppm, .0023,.0008,35.07, .0017, .0028
P_1782,178.284 {489},In2306,ppm, .0414,.0050,12.10, .0378, .0449
Pb2203,220.353 {453},In2306,ppm, .0016,.0008,51.41, .0010, .0022
S_1820,182.034 {485},Y_2243,ppm, -144800.,269.2,.1859, -145000., -144600.
Sb2068,206.833 {463},Y_2243,ppm, .0170,.0026,15.44, .0151, .0188
Se1960,196.090 {472},Y_2243,ppm, .0025,.0015,61.38, .0014, .0035
Si2516,251.611 {134},Y_3710,ppm, .0296,.0015,5.030, .0285, .0306
Sn1899,189.989 {477},In2306,ppm, .0282,.0004,1.377, .0279, .0285
Sr4215,421.552 { 80},Y_3710,ppm, .0007,.0002,29.20, .0008, .0006
Ti3349,334.904 {101},Y_3600,ppm, .0022,.0001,4.698, .0022, .0021
Tl1908,190.856 {477},In2306,ppm, .0030,.0031,103.6, .0008, .0051
V_2924,292.402 {115},Y_3600,ppm, .0002,.0003,154.6, .0004, .0000
Zn2062,206.200 {463},In2306,ppm, .1039,.0017,1.670, .1027, .1052

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1029.9,6.5900,.63990,1025.2,1034.5
In2306,230.606 {446},Cts/S, 12255.,15.318,.12499,12266.,12244.
Y_2243,224.306 {450},Cts/S, 19786.,21.825,.11030,19802.,19771.
Y_3600,360.073 { 94},Cts/S, 193070.,1763.6,.91343,194320.,191830.
Y_3710,371.030 { 91},Cts/S, 50806.,793.15,1.5611,50246.,51367.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61851-a-4-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:23:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0115,.0008,6.562, -.0110, -.0120
Al3082,308.215 {109},In2306,ppm, 322.7,4.260,1.320, 325.8, 319.7
As1890,189.042 {478},Y_2243,ppm, .2132,.0024,1.137, .2114, .2149
B_2496,249.678 {135},Y_3710,ppm, .0682,.0021,3.105, .0697, .0668
Ba4554,455.403 { 74},Y_3710,ppm, 2.101,.0241,1.147, 2.118, 2.084

Be3130,313.042 {108},Y_3710,ppm, .0152,.0001,.6991, .0153, .0151
Ca3158,315.887 {107},In2306,ppm, 1696.,57.97,3.418, 1655., 1737.
Ca3181,318.128 {106},In2306,ppm, 1788.,14.59,.8159, 1798., 1777.
Cd2288,228.802 {447},Y_2243,ppm, .0078,.0001,1.413, .0078, .0079
Co2286,228.616 {447},In2306,ppm, .1758,.0023,1.300, .1742, .1774
Cr2677,267.716 {126},Y_3600,ppm, .3327,.0067,2.005, .3280, .3374
Cu3247,324.754 {104},Y_3600,ppm, .2921,.0084,2.880, .2862, .2980
Fe2404,240.488 {140},In2306,ppm, 284.1,3.905,1.375, 286.8, 281.3
K_7664,766.490 { 44},Y_3710,ppm, 23.68,.1939,.8189, 23.82, 23.55
K_7698,769.896 { 44},Y_3710,ppm, 23.60,.1781,.7547, 23.73, 23.48
Li6707,670.784 { 50},Y_3710,ppm, .1798,.0002,.1213, .1799, .1796
Mg2790,279.079 {121},Y_3710,ppm, 41.37,.2280,.5511, 41.53, 41.21
Mn2576,257.610 {131},Y_3600,ppm, 9.352,.0641,.6859, 9.306, 9.397
Mn2576-2,257.610 {131}2,Y_3710,ppm, 9.808,.0543,.5538, 9.847, 9.770
Mo2020,202.030 {467},Y_2243,ppm, .0050,.0008,16.22, .0044, .0056
Na5895,589.592 { 57},Y_3710,ppm, 29.16,.2554,.8760, 29.34, 28.98
Na8183,818.326 { 41},Y_3710,ppm, 28.95,.2031,.7017, 29.09, 28.81
Ni2316,231.604 {445},In2306,ppm, .5081,.0054,1.064, .5043, .5119
P_1782,178.284 {489},In2306,ppm, 9.486,.1429,1.506, 9.385, 9.587
Pb2203,220.353 {453},In2306,ppm, .7728,.0052,.6685, .7692, .7765
S_1820,182.034 {485},Y_2243,ppm, -2236.,122.9,5.496, -2149., -2323.
Sb2068,206.833 {463},Y_2243,ppm, .0072,.0018,25.51, .0059, .0085
Se1960,196.090 {472},Y_2243,ppm, .0149,.0004,2.840, .0152, .0146
Si2516,251.611 {134},Y_3710,ppm, 3.420,.0100,.2925, 3.427, 3.412
Sn1899,189.989 {477},In2306,ppm, .0512,.0005,.8887, .0515, .0509
Sr4215,421.552 { 80},Y_3710,ppm, 5.154,.0965,1.872, 5.222, 5.085
Ti3349,334.904 {101},Y_3600,ppm, .3122,.0076,2.442, .3068, .3176
Tl1908,190.856 {477},In2306,ppm, -.0074,.0029,39.32, -.0095, -.0054
V_2924,292.402 {115},Y_3600,ppm, .9997,.0230,2.302, .9835, 1.016
Zn2062,206.200 {463},In2306,ppm, .9236,.0084,.9143, .9177, .9296

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 876.67,12.911,1.4727,867.54,885.80
In2306,230.606 {446},Cts/S, 9858.9,146.56,1.4866,9962.5,9755.2
Y_2243,224.306 {450},Cts/S, 19357.,264.36,1.3657,19544.,19170.
Y_3600,360.073 { 94},Cts/S, 180270.,3850.9,2.1361,183000.,177550.
Y_3710,371.030 { 91},Cts/S, 54399.,509.18,.93602,54039.,54759.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61851-a-4-c du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:26:25
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0117,.0008,7.002, -.0123, -.0112
Al3082,308.215 {109},In2306,ppm, 347.5,17.31,4.980, 359.8, 335.3
As1890,189.042 {478},Y_2243,ppm, .2259,.0049,2.158, .2293, .2224
B_2496,249.678 {135},Y_3710,ppm, .0745,.0033,4.476, .0769, .0722
Ba4554,455.403 { 74},Y_3710,ppm, 1.985,.0974,4.906, 2.054, 1.916
Be3130,313.042 {108},Y_3710,ppm, .0159,.0008,4.809, .0165, .0154
Ca3158,315.887 {107},In2306,ppm, 1642.,4.128,.2514, 1639., 1645.
Ca3181,318.128 {106},In2306,ppm, 1736.,50.58,2.914, 1771., 1700.

```
Cd2288,228.802 {447},Y_2243,ppm, .0074,.0000,.0190, .0074, .0074
Co2286,228.616 {447},In2306,ppm, .1752,.0047,2.655, .1785, .1719
Cr2677,267.716 {126},Y_3600,ppm, .3431,.0042,1.216, .3401, .3460
Cu3247,324.754 {104},Y_3600,ppm, .2969,.0052,1.762, .2932, .3006
Fe2404,240.488 {140},In2306,ppm, 311.9,15.44,4.951, 322.8, 301.0
K_7664,766.490 { 44},Y_3710,ppm, 25.28,1.053,4.166, 26.03, 24.54
K_7698,769.896 { 44},Y_3710,ppm, 25.16,1.069,4.248, 25.92, 24.41
Li6707,670.784 { 50},Y_3710,ppm, .1854,.0086,4.614, .1915, .1794
Mg2790,279.079 {121},Y_3710,ppm, 44.16,1.836,4.156, 45.46, 42.86
Mn2576,257.610 {131},Y_3600,ppm, 10.18,.0747,.7342, 10.13, 10.23
Mn2576-2,257.610 {131}2,Y_3710,ppm, 11.09,.5573,5.027, 11.48, 10.69
Mo2020,202.030 {467},Y_2243,ppm, .0058,.0003,4.469, .0060, .0056
Na5895,589.592 { 57},Y_3710,ppm, 30.07,1.326,4.410, 31.01, 29.13
Na8183,818.326 { 41},Y_3710,ppm, 29.85,1.271,4.257, 30.75, 28.95
Ni2316,231.604 {445},In2306,ppm, .5181,.0133,2.571, .5275, .5087
P_1782,178.284 {489},In2306,ppm, 9.199,.2315,2.517, 9.363, 9.035
Pb2203,220.353 {453},In2306,ppm, .4618,.0092,1.988, .4683, .4553
S_1820,182.034 {485},Y_2243,ppm, -2206.,48.38,2.193, -2240., -2172.
Sb2068,206.833 {463},Y_2243,ppm, -.0044,.0016,35.27, -.0033, -.0056
Se1960,196.090 {472},Y_2243,ppm, .0162,.0008,5.236, .0156, .0168
Si2516,251.611 {134},Y_3710,ppm, 3.591,.1678,4.673, 3.710, 3.473
Sn1899,189.989 {477},In2306,ppm, .0524,.0009,1.748, .0517, .0530
Sr4215,421.552 { 80},Y_3710,ppm, 4.851,.1798,3.706, 4.978, 4.724
Ti3349,334.904 {101},Y_3600,ppm, .3335,.0021,.6366, .3320, .3350
Tl1908,190.856 {477},In2306,ppm, -.0084,.0046,54.27, -.0052, -.0116
V_2924,292.402 {115},Y_3600,ppm, 1.008,.0133,1.324, .9987, 1.018
Zn2062,206.200 {463},In2306,ppm, .9838,.0236,2.403, 1.001, .9671

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 847.19,31.005,3.6597,825.26,869.11
In2306,230.606 {446},Cts/S, 9938.1,193.93,1.9514,9800.9,10075.
Y_2243,224.306 {450},Cts/S, 19523.,327.07,1.6753,19292.,19754.
Y_3600,360.073 { 94},Cts/S, 180490.,1295.9,.71802,181400.,179570.
Y_3710,371.030 { 91},Cts/S, 52835.,1740.0,3.2933,51605.,54066.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61851-a-4-d ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:28:58
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5028,.0142,2.814, .5129, .4928
Al3082,308.215 {109},In2306,ppm, 477.2,27.28,5.717, 496.5, 457.9
As1890,189.042 {478},Y_2243,ppm, 1.197,.0031,.2612, 1.200, 1.195
B_2496,249.678 {135},Y_3710,ppm, .6800,.0213,3.130, .6950, .6649
Ba4554,455.403 { 74},Y_3710,ppm, 3.078,.0608,1.974, 3.035, 3.121
Be3130,313.042 {108},Y_3710,ppm, .4627,.0207,4.474, .4773, .4481
Ca3158,315.887 {107},In2306,ppm, 1661.,41.34,2.489, 1690., 1632.
Ca3181,318.128 {106},In2306,ppm, 1753.,90.85,5.182, 1818., 1689.
Cd2288,228.802 {447},Y_2243,ppm, .4911,.0031,.6293, .4933, .4889
Co2286,228.616 {447},In2306,ppm, 1.239,.0061,.4953, 1.244, 1.235
Cr2677,267.716 {126},Y_3600,ppm, 1.285,.0331,2.575, 1.308, 1.261
```

```
Cu3247,324.754 {104},Y_3600,ppm, 1.326,.0358,2.698, 1.352, 1.301
Fe2404,240.488 {140},In2306,ppm, 355.2,18.76,5.281, 368.5, 342.0
K_7664,766.490 { 44},Y_3710,ppm, 40.73,1.582,3.885, 41.85, 39.61
K_7698,769.896 { 44},Y_3710,ppm, 40.63,1.678,4.130, 41.82, 39.44
Li6707,670.784 { 50},Y_3710,ppm, .6981,.0295,4.227, .7189, .6772
Mg2790,279.079 {121},Y_3710,ppm, 61.63,2.490,4.040, 63.39, 59.87
Mn2576,257.610 {131},Y_3600,ppm, 11.14,.1800,1.615, 11.27, 11.01
Mn2576-2,257.610 {131}2,Y_3710,ppm, 11.53,.4966,4.308, 11.88, 11.18
Mo2020,202.030 {467},Y_2243,ppm, .8083,.0064,.7917, .8128, .8037
Na5895,589.592 { 57},Y_3710,ppm, 41.47,1.794,4.327, 42.74, 40.20
Na8183,818.326 { 41},Y_3710,ppm, 40.95,1.762,4.304, 42.19, 39.70
Ni2316,231.604 {445},In2306,ppm, 1.616,.0086,.5326, 1.622, 1.610
P_1782,178.284 {489},In2306,ppm, 11.26,.0534,.4743, 11.30, 11.23
Pb2203,220.353 {453},In2306,ppm, 2.273,.0118,.5195, 2.265, 2.281
S_1820,182.034 {485},Y_2243,ppm, -2360.,13.17,.5580, -2369., -2351.
Sb2068,206.833 {463},Y_2243,ppm, .4092,.0086,2.102, .4153, .4032
Se1960,196.090 {472},Y_2243,ppm, .9181,.0085,.9236, .9241, .9121
Si2516,251.611 {134},Y_3710,ppm, 3.734,.1934,5.180, 3.871, 3.597
Sn1899,189.989 {477},In2306,ppm, 1.055,.0077,.7344, 1.060, 1.049
Sr4215,421.552 { 80},Y_3710,ppm, 5.284,.1699,3.216, 5.405, 5.164
Ti3349,334.904 {101},Y_3600,ppm, .7426,.0192,2.582, .7561, .7290
Tl1908,190.856 {477},In2306,ppm, .9855,.0102,1.033, .9927, .9783
V_2924,292.402 {115},Y_3600,ppm, 2.085,.0510,2.448, 2.121, 2.049
Zn2062,206.200 {463},In2306,ppm, 2.176,.0087,.4009, 2.182, 2.170

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 862.64,34.051,3.9472,838.57,886.72
In2306,230.606 {446},Cts/S, 9374.2,18.740,.19991,9361.0,9387.5
Y_2243,224.306 {450},Cts/S, 18873.,40.477,.21447,18844.,18902.
Y_3600,360.073 { 94},Cts/S, 177810.,3210.7,1.8057,175530.,180080.
Y_3710,371.030 { 91},Cts/S, 54600.,1664.2,3.0481,53423.,55777.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61851-a-4-e msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:31:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .4700,.0206,4.377, .4554, .4845
Al3082,308.215 {109},In2306,ppm, 409.2,57.19,13.98, 368.7, 449.6
As1890,189.042 {478},Y_2243,ppm, 1.077,.0012,.1116, 1.078, 1.076
B_2496,249.678 {135},Y_3710,ppm, .6565,.0789,12.02, .6007, .7123
Ba4554,455.403 { 74},Y_3710,ppm, 3.028,.3787,12.51, 2.760, 3.296
Be3130,313.042 {108},Y_3710,ppm, .4274,.0515,12.04, .3910, .4637
Ca3158,315.887 {107},In2306,ppm, 1524.,184.2,12.09, 1394., 1654.
Ca3181,318.128 {106},In2306,ppm, 1589.,184.9,11.63, 1459., 1720.
Cd2288,228.802 {447},Y_2243,ppm, .4541,.0005,.1028, .4545, .4538
Co2286,228.616 {447},In2306,ppm, 1.107,.0021,.1901, 1.108, 1.105
Cr2677,267.716 {126},Y_3600,ppm, 1.181,.0307,2.598, 1.159, 1.203
Cu3247,324.754 {104},Y_3600,ppm, 1.208,.0374,3.098, 1.181, 1.234
Fe2404,240.488 {140},In2306,ppm, 311.8,42.58,13.66, 281.7, 341.9
K_7664,766.490 { 44},Y_3710,ppm, 36.46,4.148,11.38, 33.52, 39.39
```

K_7698,769.896 { 44},Y_3710,ppm, 36.32,4.161,11.46, 33.37, 39.26
Li6707,670.784 { 50},Y_3710,ppm, .6351,.0757,11.93, .5815, .6886
Mg2790,279.079 {121},Y_3710,ppm, 55.44,6.739,12.16, 50.67, 60.20
Mn2576,257.610 {131},Y_3600,ppm, 10.79,.0851,.7882, 10.73, 10.85
Mn2576-2,257.610 {131}2,Y_3710,ppm, 11.23,1.307,11.64, 10.31, 12.15
Mo2020,202.030 {467},Y_2243,ppm, .7475,.0008,.1104, .7480, .7469
Na5895,589.592 { 57},Y_3710,ppm, 35.12,4.067,11.58, 32.24, 37.99
Na8183,818.326 { 41},Y_3710,ppm, 34.68,3.797,10.95, 31.99, 37.36
Ni2316,231.604 {445},In2306,ppm, 1.435,.0006,.0427, 1.435, 1.436
P_1782,178.284 {489},In2306,ppm, 9.262,.0416,.4497, 9.292, 9.233
Pb2203,220.353 {453},In2306,ppm, 1.274,.0059,.4623, 1.278, 1.269
S_1820,182.034 {485},Y_2243,ppm, -2232.,8.601,.3854, -2238., -2225.
Sb2068,206.833 {463},Y_2243,ppm, .3599,.0031,.8652, .3621, .3577
Se1960,196.090 {472},Y_2243,ppm, .8418,.0044,.5244, .8450, .8387
Si2516,251.611 {134},Y_3710,ppm, 3.109,.3702,11.91, 2.847, 3.370
Sn1899,189.989 {477},In2306,ppm, .9504,.0038,.4016, .9531, .9477
Sr4215,421.552 { 80},Y_3710,ppm, 4.972,.5495,11.05, 4.584, 5.361
Ti3349,334.904 {101},Y_3600,ppm, .7606,.0194,2.557, .7469, .7744
Tl1908,190.856 {477},In2306,ppm, .9098,.0059,.6489, .9140, .9056
V_2924,292.402 {115},Y_3600,ppm, 1.918,.0518,2.699, 1.882, 1.955
Zn2062,206.200 {463},In2306,ppm, 1.984,.0036,.1791, 1.987, 1.982

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 902.19,98.319,10.898,971.71,832.67
In2306,230.606 {446},Cts/S, 9768.3,6.0631,.06207,9764.0,9772.5
Y_2243,224.306 {450},Cts/S, 19353.,18.356,.09485,19340.,19366.
Y_3600,360.073 { 94},Cts/S, 180560.,3993.1,2.2115,183380.,177740.
Y_3710,371.030 { 91},Cts/S, 55377.,5032.6,9.0878,58936.,51819.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=PDS 600-61851-a-4-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:34:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .4715,.0132,2.810, .4809, .4621
Al3082,308.215 {109},In2306,ppm, 333.0,7.609,2.285, 338.4, 327.6
As1890,189.042 {478},Y_2243,ppm, 1.116,.0131,1.172, 1.106, 1.125
B_2496,249.678 {135},Y_3710,ppm, .9341,.0159,1.699, .9453, .9228
Ba4554,455.403 { 74},Y_3710,ppm, 2.914,.0337,1.155, 2.891, 2.938
Be3130,313.042 {108},Y_3710,ppm, .4486,.0082,1.818, .4543, .4428
Ca3158,315.887 {107},In2306,ppm, 1710.,.4010,.0234, 1710., 1711.
Ca3181,318.128 {106},In2306,ppm, 1824.,47.80,2.621, 1858., 1790.
Cd2288,228.802 {447},Y_2243,ppm, .4601,.0053,1.156, .4563, .4638
Co2286,228.616 {447},In2306,ppm, 1.128,.0158,1.400, 1.116, 1.139
Cr2677,267.716 {126},Y_3600,ppm, 1.144,.0210,1.836, 1.159, 1.129
Cu3247,324.754 {104},Y_3600,ppm, 1.231,.0284,2.306, 1.251, 1.210
Fe2404,240.488 {140},In2306,ppm, 291.9,6.562,2.248, 296.5, 287.2
K_7664,766.490 { 44},Y_3710,ppm, 32.83,.4331,1.319, 33.14, 32.53
K_7698,769.896 { 44},Y_3710,ppm, 32.76,.4701,1.435, 33.09, 32.43
Li6707,670.784 { 50},Y_3710,ppm, 1.110,.0154,1.390, 1.121, 1.099
Mg2790,279.079 {121},Y_3710,ppm, 49.46,.8314,1.681, 50.04, 48.87

Mn2576,257.610 {131},Y_3600,ppm, 9.684,.1416,1.462, 9.584, 9.784
Mn2576-2,257.610 {131}2,Y_3710,ppm, 10.29,.1371,1.332, 10.39, 10.20
Mo2020,202.030 {467},Y_2243,ppm, .8438,.0098,1.163, .8369, .8508
Na5895,589.592 { 57},Y_3710,ppm, 38.92,.5281,1.357, 39.29, 38.55
Na8183,818.326 { 41},Y_3710,ppm, 38.12,.5003,1.312, 38.47, 37.77
Ni2316,231.604 {445},In2306,ppm, 1.438,.0203,1.410, 1.423, 1.452
P_1782,178.284 {489},In2306,ppm, 10.58,.1357,1.283, 10.48, 10.67
Pb2203,220.353 {453},In2306,ppm, 1.705,.0245,1.436, 1.688, 1.722
S_1820,182.034 {485},Y_2243,ppm, -2163.,17.98,.8311, -2151., -2176.
Sb2068,206.833 {463},Y_2243,ppm, .8888,.0092,1.039, .8822, .8953
Se1960,196.090 {472},Y_2243,ppm, .8899,.0132,1.481, .8806, .8993
Si2516,251.611 {134},Y_3710,ppm, 4.334,.0641,1.479, 4.379, 4.288
Sn1899,189.989 {477},In2306,ppm, .9947,.0149,1.503, .9841, 1.005
Sr4215,421.552 { 80},Y_3710,ppm, 5.610,.0420,.7492, 5.640, 5.581
Ti3349,334.904 {101},Y_3600,ppm, 1.171,.0249,2.123, 1.189, 1.154
Tl1908,190.856 {477},In2306,ppm, .9084,.0171,1.883, .8963, .9205
V_2924,292.402 {115},Y_3600,ppm, 1.846,.0401,2.170, 1.875, 1.818
Zn2062,206.200 {463},In2306,ppm, 1.873,.0274,1.465, 1.853, 1.892

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 868.98,14.283,1.6437,858.88,879.08
In2306,230.606 {446},Cts/S, 9754.1,115.63,1.1855,9835.8,9672.3
Y_2243,224.306 {450},Cts/S, 19450.,186.59,.95931,19582.,19318.
Y_3600,360.073 { 94},Cts/S, 180250.,2960.2,1.6423,178160.,182340.
Y_3710,371.030 { 91},Cts/S, 53954.,699.70,1.2969,53459.,54449.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=SD 600-61851-a-4-b@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:36:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0027,.0001,2.738, -.0027, -.0026
Al3082,308.215 {109},In2306,ppm, 57.28,1.065,1.858, 56.53, 58.03
As1890,189.042 {478},Y_2243,ppm, .0475,.0005,.9868, .0471, .0478
B_2496,249.678 {135},Y_3710,ppm, .0187,.0001,.3913, .0187, .0186
Ba4554,455.403 { 74},Y_3710,ppm, .4444,.0042,.9531, .4414, .4474
Be3130,313.042 {108},Y_3710,ppm, .0034,.0000,.4565, .0034, .0034
Ca3158,315.887 {107},In2306,ppm, 345.3,3.071,.8894, 343.1, 347.5
Ca3181,318.128 {106},In2306,ppm, 348.4,3.971,1.140, 345.6, 351.2
Cd2288,228.802 {447},Y_2243,ppm, .0018,.0001,4.574, .0017, .0019
Co2286,228.616 {447},In2306,ppm, .0360,.0003,.8150, .0362, .0358
Cr2677,267.716 {126},Y_3600,ppm, .0775,.0005,.6430, .0778, .0771
Cu3247,324.754 {104},Y_3600,ppm, .0593,.0000,.0143, .0593, .0593
Fe2404,240.488 {140},In2306,ppm, 54.83,.8526,1.555, 54.23, 55.44
K_7664,766.490 { 44},Y_3710,ppm, 4.989,.0443,.8871, 5.021, 4.958
K_7698,769.896 { 44},Y_3710,ppm, 4.931,.0317,.6437, 4.954, 4.909
Li6707,670.784 { 50},Y_3710,ppm, .0363,.0008,2.336, .0357, .0369
Mg2790,279.079 {121},Y_3710,ppm, 9.263,.0401,.4330, 9.235, 9.292
Mn2576,257.610 {131},Y_3600,ppm, 2.171,.0119,.5478, 2.179, 2.162
Mn2576-2,257.610 {131}2,Y_3710,ppm, 2.116,.0126,.5964, 2.108, 2.125
Mo2020,202.030 {467},Y_2243,ppm, .0028,.0003,10.22, .0026, .0030

Na5895,589.592 { 57},Y_3710,ppm, 6.127,.0213,.3472, 6.112, 6.142
Na8183,818.326 { 41},Y_3710,ppm, 6.103,.1423,2.332, 6.003, 6.204
Ni2316,231.604 {445},In2306,ppm, .1021,.0006,.5917, .1026, .1017
P_1782,178.284 {489},In2306,ppm, 1.824,.0077,.4248, 1.829, 1.818
Pb2203,220.353 {453},In2306,ppm, .1572,.0013,.8060, .1581, .1563
S_1820,182.034 {485},Y_2243,ppm, -466.1,3.904,.8375, -468.9, -463.3
Sb2068,206.833 {463},Y_2243,ppm, .0082,.0021,25.81, .0067, .0098
Se1960,196.090 {472},Y_2243,ppm, .0031,.0008,25.65, .0026, .0037
Si2516,251.611 {134},Y_3710,ppm, .7481,.0018,.2392, .7468, .7493
Sn1899,189.989 {477},In2306,ppm, .0094,.0022,23.81, .0110, .0078
Sr4215,421.552 { 80},Y_3710,ppm, 1.100,.0095,.8656, 1.094, 1.107
Ti3349,334.904 {101},Y_3600,ppm, .0693,.0001,.1328, .0694, .0692
Tl1908,190.856 {477},In2306,ppm, -.0010,.0005,54.04, -.0014, -.0006
V_2924,292.402 {115},Y_3600,ppm, .2227,.0005,.2208, .2231, .2224
Zn2062,206.200 {463},In2306,ppm, .2073,.0011,.5499, .2081, .2065

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 960.45,7.7224,.80404,954.99,965.91
In2306,230.606 {446},Cts/S, 11127.,76.591,.68834,11073.,11181.
Y_2243,224.306 {450},Cts/S, 19291.,115.95,.60104,19209.,19373.
Y_3600,360.073 { 94},Cts/S, 181190.,1097.8,.60588,180410.,181970.
Y_3710,371.030 { 91},Cts/S, 51070.,719.30,1.4085,50561.,51579.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=600-61916-c-2-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:39:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0003,.0007,234.6, .0002, -.0008
Al3082,308.215 {109},In2306,ppm, .0874,.0236,27.01, .1040, .0707
As1890,189.042 {478},Y_2243,ppm, .0007,.0001,14.98, .0006, .0007
B_2496,249.678 {135},Y_3710,ppm, .0037,.0012,34.07, .0045, .0028
Ba4554,455.403 { 74},Y_3710,ppm, .0033,.0001,2.412, .0032, .0034
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,16.77, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .8670,.0092,1.067, .8735, .8605
Ca3181,318.128 {106},In2306,ppm, .8765,.0067,.7624, .8718, .8812
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0001,190.4, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,12.27, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0008,.0001,8.708, .0008, .0007
Cu3247,324.754 {104},Y_3600,ppm, -.0015,.0001,3.927, -.0015, -.0015
Fe2404,240.488 {140},In2306,ppm, .0907,.0044,4.826, .0876, .0938
K_7664,766.490 { 44},Y_3710,ppm, 1.697,.0122,.7159, 1.706, 1.689
K_7698,769.896 { 44},Y_3710,ppm, 1.643,.0052,.3180, 1.646, 1.639
Li6707,670.784 { 50},Y_3710,ppm, -.0006,.0006,95.80, -.0011, -.0002
Mg2790,279.079 {121},Y_3710,ppm, .2197,.0215,9.781, .2349, .2045
Mn2576,257.610 {131},Y_3600,ppm, 1.333,.0291,2.182, 1.354, 1.312
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.382,.0112,.8111, 1.374, 1.390
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0000,12.28, .0001, .0002
Na5895,589.592 { 57},Y_3710,ppm, 44.98,.1313,.2920, 45.08, 44.89
Na8183,818.326 { 41},Y_3710,ppm, 44.36,.2819,.6355, 44.56, 44.16
Ni2316,231.604 {445},In2306,ppm, -.0001,.0000,21.18, -.0001, -.0001

```
P_1782,178.284 {489},In2306,ppm, .1419,.0044,3.106, .1388, .1450
Pb2203,220.353 {453},In2306,ppm, .0007,.0007,100.0, .0002, .0012
S_1820,182.034 {485},Y_2243,ppm, -3544.,100.3,2.832, -3473., -3615.
Sb2068,206.833 {463},Y_2243,ppm, .0031,.0008,25.47, .0025, .0037
Se1960,196.090 {472},Y_2243,ppm, .0010,.0005,53.49, .0006, .0013
Si2516,251.611 {134},Y_3710,ppm, 1.449,.0099,.6844, 1.442, 1.456
Sn1899,189.989 {477},In2306,ppm, .0004,.0011,276.8, -.0004, .0012
Sr4215,421.552 { 80},Y_3710,ppm, .0056,.0001,.9459, .0056, .0057
Ti3349,334.904 {101},Y_3600,ppm, .0064,.0001,.8240, .0065, .0064
Tl1908,190.856 {477},In2306,ppm, -.0021,.0001,5.935, -.0020, -.0022
V_2924,292.402 {115},Y_3600,ppm, .0032,.0003,8.357, .0033, .0030
Zn2062,206.200 {463},In2306,ppm, .0029,.0002,7.898, .0028, .0031

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 989.21,8.9216,.90189,982.91,995.52
In2306,230.606 {446},Cts/S, 11805.,300.55,2.5459,12018.,11593.
Y_2243,224.306 {450},Cts/S, 19697.,473.81,2.4055,20032.,19362.
Y_3600,360.073 { 94},Cts/S, 186630.,3086.8,1.6540,184450.,188810.
Y_3710,371.030 { 91},Cts/S, 48475.,662.54,1.3668,48007.,48944.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCV 987185
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:41:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2367,.0000,.0139, .2366, .2367
Al3082,308.215 {109},In2306,ppm, 2.480,.0341,1.373, 2.456, 2.504
As1890,189.042 {478},Y_2243,ppm, .5024,.0361,7.176, .4769, .5279
B_2496,249.678 {135},Y_3710,ppm, .5037,.0002,.0491, .5036, .5039
Ba4554,455.403 { 74},Y_3710,ppm, .5024,.0015,.3044, .5014, .5035
Be3130,313.042 {108},Y_3710,ppm, .5074,.0020,.3861, .5060, .5088
Ca3158,315.887 {107},In2306,ppm, 12.18,.1170,.9613, 12.09, 12.26
Ca3181,318.128 {106},In2306,ppm, 12.39,.0371,.2992, 12.36, 12.42
Cd2288,228.802 {447},Y_2243,ppm, .4971,.0347,6.977, .4726, .5216
Co2286,228.616 {447},In2306,ppm, .5032,.0351,6.975, .4784, .5280
Cr2677,267.716 {126},Y_3600,ppm, .4835,.0004,.0849, .4832, .4837
Cu3247,324.754 {104},Y_3600,ppm, .4827,.0018,.3695, .4814, .4839
Fe2404,240.488 {140},In2306,ppm, 2.487,.0188,.7567, 2.474, 2.500
K_7664,766.490 { 44},Y_3710,ppm, 12.75,.0518,.4059, 12.79, 12.72
K_7698,769.896 { 44},Y_3710,ppm, 12.76,.0222,.1742, 12.77, 12.74
Li6707,670.784 { 50},Y_3710,ppm, .5088,.0013,.2468, .5079, .5097
Mg2790,279.079 {121},Y_3710,ppm, 5.001,.0193,.3861, 4.988, 5.015
Mn2576,257.610 {131},Y_3600,ppm, .4702,.0001,.0166, .4702, .4701
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4958,.0025,.5061, .4940, .4975
Mo2020,202.030 {467},Y_2243,ppm, .4983,.0336,6.748, .4745, .5220
Na5895,589.592 { 57},Y_3710,ppm, 12.71,.0299,.2353, 12.73, 12.69
Na8183,818.326 { 41},Y_3710,ppm, 12.59,.3932,3.124, 12.87, 12.31
Ni2316,231.604 {445},In2306,ppm, .4981,.0346,6.954, .4736, .5226
P_1782,178.284 {489},In2306,ppm, .5117,.0376,7.350, .4851, .5383
Pb2203,220.353 {453},In2306,ppm, .4950,.0305,6.163, .4735, .5166
S_1820,182.034 {485},Y_2243,ppm, -209.1,14.26,6.816, -199.1, -219.2
```

```
Sb2068,206.833 {463},Y_2243,ppm, .5014,.0370,7.384, .4752, .5276
Se1960,196.090 {472},Y_2243,ppm, .4975,.0297,5.963, .4765, .5185
Si2516,251.611 {134},Y_3710,ppm, .9770,.0085,.8652, .9711, .9830
Sn1899,189.989 {477},In2306,ppm, .4954,.0317,6.393, .4730, .5178
Sr4215,421.552 { 80},Y_3710,ppm, .2518,.0016,.6179, .2507, .2529
Ti3349,334.904 {101},Y_3600,ppm, .4842,.0020,.4175, .4827, .4856
Tl1908,190.856 {477},In2306,ppm, .5012,.0351,7.004, .4763, .5260
V_2924,292.402 {115},Y_3600,ppm, .4853,.0010,.2109, .4846, .4860
Zn2062,206.200 {463},In2306,ppm, .4963,.0343,6.906, .4720, .5205

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 977.50,14.836,1.5178,967.01,987.99
In2306,230.606 {446},Cts/S, 11655.,640.49,5.4952,12108.,11203.
Y_2243,224.306 {450},Cts/S, 19503.,1068.2,5.4772,20258.,18748.
Y_3600,360.073 { 94},Cts/S, 190270.,626.20,.32911,190710.,189830.
Y_3710,371.030 { 91},Cts/S, 48601.,860.87,1.7713,47992.,49210.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:43:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0039,.0002,4.767, .0038, .0040
Al3082,308.215 {109},In2306,ppm, .0925,.0008,.8826, .0919, .0931
As1890,189.042 {478},Y_2243,ppm, .0105,.0002,1.650, .0104, .0107
B_2496,249.678 {135},Y_3710,ppm, .0096,.0006,6.654, .0092, .0101
Ba4554,455.403 { 74},Y_3710,ppm, .0105,.0001,1.373, .0104, .0106
Be3130,313.042 {108},Y_3710,ppm, .0052,.0001,1.702, .0052, .0053
Ca3158,315.887 {107},In2306,ppm, .1050,.0009,.8968, .1043, .1057
Ca3181,318.128 {106},In2306,ppm, .0990,.0022,2.179, .1005, .0975
Cd2288,228.802 {447},Y_2243,ppm, .0052,.0001,2.681, .0051, .0053
Co2286,228.616 {447},In2306,ppm, .0103,.0001,.8402, .0103, .0102
Cr2677,267.716 {126},Y_3600,ppm, .0101,.0004,3.800, .0103, .0098
Cu3247,324.754 {104},Y_3600,ppm, .0081,.0005,6.606, .0085, .0077
Fe2404,240.488 {140},In2306,ppm, .1010,.0011,1.133, .1002, .1018
K_7664,766.490 { 44},Y_3710,ppm, .6387,.0154,2.412, .6496, .6278
K_7698,769.896 { 44},Y_3710,ppm, .5814,.0242,4.161, .5643, .5985
Li6707,670.784 { 50},Y_3710,ppm, .0100,.0005,5.353, .0097, .0104
Mg2790,279.079 {121},Y_3710,ppm, .0934,.0189,20.28, .1068, .0800
Mn2576,257.610 {131},Y_3600,ppm, .0097,.0005,5.307, .0100, .0093
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0106,.0006,5.527, .0110, .0101
Mo2020,202.030 {467},Y_2243,ppm, .0111,.0009,8.103, .0104, .0117
Na5895,589.592 { 57},Y_3710,ppm, .6074,.0159,2.625, .5961, .6186
Na8183,818.326 { 41},Y_3710,ppm, .6125,.0695,11.35, .6616, .5633
Ni2316,231.604 {445},In2306,ppm, .0101,.0000,.3035, .0100, .0101
P_1782,178.284 {489},In2306,ppm, .0090,.0005,6.115, .0086, .0094
Pb2203,220.353 {453},In2306,ppm, .0105,.0003,2.957, .0103, .0107
S_1820,182.034 {485},Y_2243,ppm, -1.192,.0350,2.936, -1.167, -1.216
Sb2068,206.833 {463},Y_2243,ppm, .0131,.0011,8.138, .0123, .0138
Se1960,196.090 {472},Y_2243,ppm, .0111,.0003,2.723, .0108, .0113
Si2516,251.611 {134},Y_3710,ppm, .0151,.0020,13.54, .0165, .0137
```

```
Sn1899,189.989 {477},In2306,ppm, .0104,.0001,.5366, .0104, .0103
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0001,2.326, .0051, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0100,.0007,7.190, .0105, .0095
Tl1908,190.856 {477},In2306,ppm, .0112,.0027,24.03, .0093, .0131
V_2924,292.402 {115},Y_3600,ppm, .0099,.0004,3.777, .0102, .0097
Zn2062,206.200 {463},In2306,ppm, .0105,.0001,.6825, .0106, .0105

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1022.0,12.489,1.2221,1030.8,1013.1
In2306,230.606 {446},Cts/S, 11913.,172.44,1.4475,11791.,12035.
Y_2243,224.306 {450},Cts/S, 20176.,298.17,1.4779,19965.,20387.
Y_3600,360.073 { 94},Cts/S, 192560.,6432.6,3.3406,188010.,197110.
Y_3710,371.030 { 91},Cts/S, 49867.,624.26,1.2519,50308.,49425.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:46:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0001,.0004,530.1, -.0002, .0004
Al3082,308.215 {109},In2306,ppm, .0011,.0202,1845., .0154, -.0132
As1890,189.042 {478},Y_2243,ppm, -.0004,.0007,201.4, -.0009, .0002
B_2496,249.678 {135},Y_3710,ppm, -.0005,.0012,238.0, .0003, -.0013
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0000,20.41, -.0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,400.2, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0028,.0053,188.3, .0065, -.0009
Ca3181,318.128 {106},In2306,ppm, -.0135,.0088,65.58, -.0072, -.0197
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,81.57, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0001,163.7, .0000, .0001
Cr2677,267.716 {126},Y_3600,ppm, .0002,.0003,152.5, .0003, .0000
Cu3247,324.754 {104},Y_3600,ppm, -.0031,.0001,3.990, -.0030, -.0032
Fe2404,240.488 {140},In2306,ppm, .0053,.0001,1.247, .0054, .0053
K_7664,766.490 { 44},Y_3710,ppm, -.0200,.0042,21.19, -.0230, -.0170
K_7698,769.896 { 44},Y_3710,ppm, -.0361,.0012,3.309, -.0352, -.0369
Li6707,670.784 { 50},Y_3710,ppm, -.0012,.0000,.9023, -.0012, -.0012
Mg2790,279.079 {121},Y_3710,ppm, -.0078,.0106,135.8, -.0003, -.0154
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,131.0, .0000, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0001,.0005,391.8, .0002, -.0005
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0001,135.2, .0000, .0001
Na5895,589.592 { 57},Y_3710,ppm, -.0122,.0021,16.86, -.0137, -.0108
Na8183,818.326 { 41},Y_3710,ppm, .2562,.1525,59.51, .1484, .3641
Ni2316,231.604 {445},In2306,ppm, -.0001,.0002,170.7, -.0003, .0000
P_1782,178.284 {489},In2306,ppm, .0000,.0002,586.6, .0002, -.0001
Pb2203,220.353 {453},In2306,ppm, .0003,.0006,203.3, -.0001, .0007
S_1820,182.034 {485},Y_2243,ppm, -.8941,.2557,28.60, -1.075, -.7133
Sb2068,206.833 {463},Y_2243,ppm, .0012,.0003,25.50, .0010, .0014
Se1960,196.090 {472},Y_2243,ppm, .0006,.0004,70.79, .0003, .0009
Si2516,251.611 {134},Y_3710,ppm, .0014,.0021,151.5, -.0001, .0029
Sn1899,189.989 {477},In2306,ppm, .0003,.0000,6.147, .0003, .0003
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,107.1, .0000, .0000
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0003,415.2, .0002, -.0003
```

Tl1908,190.856 {477},In2306,ppm, .0001,.0010,755.9, .0008, -.0006
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0001,49.74, -.0001, -.0002
Zn2062,206.200 {463},In2306,ppm, .0000,.0000,221.3, .0000, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 984.56,39.496,4.0116,956.63,1012.5
In2306,230.606 {446},Cts/S, 11677.,190.67,1.6329,11542.,11812.
Y_2243,224.306 {450},Cts/S, 19882.,298.05,1.4991,19671.,20093.
Y_3600,360.073 { 94},Cts/S, 191290.,1654.5,.86490,190120.,192460.
Y_3710,371.030 { 91},Cts/S, 48280.,1976.9,4.0945,46882.,49678.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICSA 961816
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:49:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0018,.0001,3.248, -.0017, -.0018
Al3082,308.215 {109},In2306,ppm, 557.7,26.69,4.785, 538.8, 576.5
As1890,189.042 {478},Y_2243,ppm, -.0034,.0018,53.37, -.0021, -.0047
B_2496,249.678 {135},Y_3710,ppm, .0021,.0035,161.6, .0046, -.0003
Ba4554,455.403 { 74},Y_3710,ppm, .0004,.0001,17.27, .0003, .0004
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,125.1, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 480.1,37.28,7.765, 453.8, 506.5
Ca3181,318.128 {106},In2306,ppm, 525.3,21.86,4.161, 509.8, 540.7
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,.7223, .0002, .0002
Co2286,228.616 {447},In2306,ppm, -.0001,.0002,117.0, -.0003, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0031,.0000,.7746, .0031, .0031
Cu3247,324.754 {104},Y_3600,ppm, .0011,.0002,17.30, .0013, .0010
Fe2404,240.488 {140},In2306,ppm, 203.0,9.086,4.477, 196.5, 209.4
K_7664,766.490 { 44},Y_3710,ppm, -.0437,.0228,52.25, -.0275, -.0598
K_7698,769.896 { 44},Y_3710,ppm, -.5889,.0920,15.62, -.5238, -.6539
Li6707,670.784 { 50},Y_3710,ppm, .0188,.0008,4.103, .0182, .0193
Mg2790,279.079 {121},Y_3710,ppm, 530.1,22.93,4.326, 513.9, 546.3
Mn2576,257.610 {131},Y_3600,ppm, -.0051,.0004,7.498, -.0048, -.0053
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0046,.0006,13.99, -.0041, -.0050
Mo2020,202.030 {467},Y_2243,ppm, -.0015,.0004,25.18, -.0018, -.0012
Na5895,589.592 { 57},Y_3710,ppm, .0151,.0017,10.95, .0163, .0139
Na8183,818.326 { 41},Y_3710,ppm, .9797,.1242,12.68, 1.068, .8919
Ni2316,231.604 {445},In2306,ppm, .0047,.0003,6.269, .0045, .0049
P_1782,178.284 {489},In2306,ppm, .0044,.0007,15.50, .0039, .0049
Pb2203,220.353 {453},In2306,ppm, .0057,.0033,58.80, .0080, .0033
S_1820,182.034 {485},Y_2243,ppm, 15.17,.1636,1.078, 15.29, 15.06
Sb2068,206.833 {463},Y_2243,ppm, -.0091,.0011,11.61, -.0083, -.0098
Se1960,196.090 {472},Y_2243,ppm, .0044,.0024,54.38, .0061, .0027
Si2516,251.611 {134},Y_3710,ppm, .0057,.0037,65.03, .0031, .0083
Sn1899,189.989 {477},In2306,ppm, .0071,.0009,12.44, .0077, .0065
Sr4215,421.552 { 80},Y_3710,ppm, .0023,.0000,.0742, .0023, .0023
Ti3349,334.904 {101},Y_3600,ppm, .0028,.0004,13.84, .0030, .0025
Tl1908,190.856 {477},In2306,ppm, -.0010,.0008,83.13, -.0016, -.0004
V_2924,292.402 {115},Y_3600,ppm, -.0007,.0004,52.10, -.0010, -.0005

Zn2062,206.200 {463},In2306,ppm, .0081,.0003,3.139, .0082, .0079

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 871.56,24.080,2.7629,888.59,854.53
In2306,230.606 {446},Cts/S, 10031.,12.150,.12113,10022.,10040.
Y_2243,224.306 {450},Cts/S, 17994.,3.0671,.01705,17992.,17996.
Y_3600,360.073 { 94},Cts/S, 167650.,925.71,.55217,167000.,168310.
Y_3710,371.030 { 91},Cts/S, 46990.,1380.1,2.9370,47965.,46014.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=ICSAB 969808
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:52:13
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5156,.0117,2.271, .5073, .5238
Al3082,308.215 {109},In2306,ppm, 555.1,6.557,1.181, 559.8, 550.5
As1890,189.042 {478},Y_2243,ppm, .9724,.0128,1.312, .9634, .9815
B_2496,249.678 {135},Y_3710,ppm, .9833,.0018,.1781, .9820, .9845
Ba4554,455.403 { 74},Y_3710,ppm, .9966,.0009,.0930, .9972, .9959
Be3130,313.042 {108},Y_3710,ppm, .4859,.0003,.0613, .4861, .4857
Ca3158,315.887 {107},In2306,ppm, 473.2,3.649,.7711, 470.6, 475.8
Ca3181,318.128 {106},In2306,ppm, 519.5,7.332,1.411, 524.7, 514.4
Cd2288,228.802 {447},Y_2243,ppm, .5021,.0052,1.031, .4984, .5058
Co2286,228.616 {447},In2306,ppm, .9692,.0092,.9460, .9627, .9757
Cr2677,267.716 {126},Y_3600,ppm, .9241,.0235,2.546, .9075, .9408
Cu3247,324.754 {104},Y_3600,ppm, 1.055,.0245,2.327, 1.037, 1.072
Fe2404,240.488 {140},In2306,ppm, 207.5,2.736,1.319, 209.4, 205.6
K_7664,766.490 { 44},Y_3710,ppm, 10.33,.0221,.2138, 10.35, 10.32
K_7698,769.896 { 44},Y_3710,ppm, 9.892,.0005,.0054, 9.891, 9.892
Li6707,670.784 { 50},Y_3710,ppm, 1.062,.0016,.1498, 1.061, 1.063
Mg2790,279.079 {121},Y_3710,ppm, 517.8,1.376,.2656, 518.8, 516.9
Mn2576,257.610 {131},Y_3600,ppm, .8878,.0176,1.987, .8753, .9003
Mn2576-2,257.610 {131}2,Y_3710,ppm, .8932,.0020,.2277, .8918, .8947
Mo2020,202.030 {467},Y_2243,ppm, .9008,.0111,1.228, .8930, .9087
Na5895,589.592 { 57},Y_3710,ppm, 10.38,.0170,.1642, 10.39, 10.36
Na8183,818.326 { 41},Y_3710,ppm, 10.77,.1303,1.210, 10.87, 10.68
Ni2316,231.604 {445},In2306,ppm, .9463,.0074,.7839, .9411, .9516
P_1782,178.284 {489},In2306,ppm, 1.072,.0047,.4368, 1.069, 1.076
Pb2203,220.353 {453},In2306,ppm, .9771,.0189,1.935, .9637, .9904
S_1820,182.034 {485},Y_2243,ppm, 17.82,.0117,.0656, 17.83, 17.81
Sb2068,206.833 {463},Y_2243,ppm, .9580,.0079,.8199, .9524, .9635
Se1960,196.090 {472},Y_2243,ppm, .9546,.0096,1.011, .9478, .9614
Si2516,251.611 {134},Y_3710,ppm, .9661,.0015,.1572, .9651, .9672
Sn1899,189.989 {477},In2306,ppm, .9478,.0095,1.007, .9410, .9545
Sr4215,421.552 { 80},Y_3710,ppm, .4928,.0003,.0705, .4926, .4931
Ti3349,334.904 {101},Y_3600,ppm, .9583,.0236,2.463, .9416, .9750
Tl1908,190.856 {477},In2306,ppm, .9423,.0056,.5903, .9384, .9463
V_2924,292.402 {115},Y_3600,ppm, .9381,.0232,2.469, .9217, .9545
Zn2062,206.200 {463},In2306,ppm, .9286,.0096,1.030, .9218, .9354

[Internal Standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 879.70,17.892,2.0339,867.05,892.35
In2306,230.606 {446},Cts/S, 10061.,74.506,.74052,10114.,10009.
Y_2243,224.306 {450},Cts/S, 18131.,152.41,.84056,18239.,18024.
Y_3600,360.073 { 94},Cts/S, 166100.,3515.8,2.1166,168590.,163620.
Y_3710,371.030 { 91},Cts/S, 48116.,431.42,.89662,47811.,48421.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=RINSE
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:54:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0003,143.9, .0000, -.0004
Al3082,308.215 {109},In2306,ppm, .0525,.0424,80.80, .0825, .0225
As1890,189.042 {478},Y_2243,ppm, .0034,.0000,.0057, .0034, .0034
B_2496,249.678 {135},Y_3710,ppm, .0012,.0036,292.3, .0038, -.0013
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,525.0, .0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,108.5, .0002, .0000
Ca3158,315.887 {107},In2306,ppm, .0661,.0565,85.44, .1060, .0262
Ca3181,318.128 {106},In2306,ppm, .0324,.0570,175.9, .0727, -.0079
Cd2288,228.802 {447},Y_2243,ppm, -.0002,.0001,63.13, -.0003, -.0001
Co2286,228.616 {447},In2306,ppm, .0003,.0004,117.8, .0001, .0005
Cr2677,267.716 {126},Y_3600,ppm, .0003,.0003,92.51, .0005, .0001
Cu3247,324.754 {104},Y_3600,ppm, -.0012,.0003,23.64, -.0010, -.0014
Fe2404,240.488 {140},In2306,ppm, .0338,.0259,76.63, .0521, .0155
K_7664,766.490 { 44},Y_3710,ppm, .0157,.0273,173.6, -.0036, .0350
K_7698,769.896 { 44},Y_3710,ppm, -.6123,.0507,8.273, -.5765, -.6481
Li6707,670.784 { 50},Y_3710,ppm, -.0007,.0004,55.55, -.0009, -.0004
Mg2790,279.079 {121},Y_3710,ppm, .0773,.0708,91.58, .1273, .0272
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0000,66.44, .0000, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0009,.0002,20.65, .0010, .0007
Mo2020,202.030 {467},Y_2243,ppm, -.0014,.0002,14.83, -.0012, -.0015
Na5895,589.592 { 57},Y_3710,ppm, -.0177,.0061,34.61, -.0134, -.0221
Na8183,818.326 { 41},Y_3710,ppm, .1460,.1454,99.59, .2488, .0432
Ni2316,231.604 {445},In2306,ppm, .0000,.0005,1004., -.0003, .0004
P_1782,178.284 {489},In2306,ppm, -.0025,.0003,13.93, -.0027, -.0022
Pb2203,220.353 {453},In2306,ppm, .0006,.0002,29.82, .0005, .0007
S_1820,182.034 {485},Y_2243,ppm, -.4928,.1191,24.17, -.5770, -.4086
Sb2068,206.833 {463},Y_2243,ppm, -.0040,.0001,3.583, -.0039, -.0041
Se1960,196.090 {472},Y_2243,ppm, .0029,.0018,63.31, .0042, .0016
Si2516,251.611 {134},Y_3710,ppm, .0863,.0248,28.79, .0687, .1038
Sn1899,189.989 {477},In2306,ppm, .0002,.0001,60.84, .0003, .0001
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,123.0, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0003,.0004,148.5, .0006, .0000
Tl1908,190.856 {477},In2306,ppm, .0022,.0000,1.425, .0022, .0022
V_2924,292.402 {115},Y_3600,ppm, .0003,.0002,61.88, .0004, .0001
Zn2062,206.200 {463},In2306,ppm, .0003,.0003,95.41, .0001, .0006

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 1054.0,3.6024,.34180,1051.4,1056.5
In2306,230.606 {446},Cts/S, 12044.,75.862,.62985,11991.,12098.

Y_2243,224.306 {450},Cts/S, 20621.,30.530,.14805,20600.,20643.
Y_3600,360.073 { 94},Cts/S, 197430.,1109.8,.56214,198210.,196650.
Y_3710,371.030 { 91},Cts/S, 51362.,601.28,1.1707,50937.,51787.

[Sample Header]
Method=ICP6500Metals_TRY3(v1059)
SampleName=RINSE
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=9/28/2012 14:56:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.2244,.0529,23.60, -.1869, -.2618
Al3082,308.215 {109},In2306,ppm, 5.009,2.022,40.36, 3.579, 6.439
As1890,189.042 {478},Y_2243,ppm, -.6576,.0521,7.915, -.6208, -.6944
B_2496,249.678 {135},Y_3710,ppm, .3012,.0823,27.32, .3594, .2430
Ba4554,455.403 { 74},Y_3710,ppm, .0344,.0136,39.62, .0248, .0441
Be3130,313.042 {108},Y_3710,ppm, -.0091,.0057,62.64, -.0051, -.0132
Ca3158,315.887 {107},In2306,ppm, -7.423,5.027,67.73, -3.868, -10.98
Ca3181,318.128 {106},In2306,ppm, -.6544,.7068,108.0, -.1546, -1.154
Cd2288,228.802 {447},Y_2243,ppm, -.0044,.0238,538.6, -.0212, .0124
Co2286,228.616 {447},In2306,ppm, -.4692,.1317,28.06, -.5623, -.3761
Cr2677,267.716 {126},Y_3600,ppm, .0098,.0077,78.62, .0152, .0043
Cu3247,324.754 {104},Y_3600,ppm, .8134,.2592,31.86, .6301, .9966
Fe2404,240.488 {140},In2306,ppm, .3628,.4463,123.0, .0473, .6784
K_7664,766.490 { 44},Y_3710,ppm, 1.356,.1212,8.942, 1.442, 1.270
K_7698,769.896 { 44},Y_3710,ppm, -.1805,.7363,408.0, -.7011, .3402
Li6707,670.784 { 50},Y_3710,ppm, .0091,.0656,724.1, .0555, -.0373
Mg2790,279.079 {121},Y_3710,ppm, -.6673,.5492,82.29, -.2790, -1.056
Mn2576,257.610 {131},Y_3600,ppm, .0082,.0103,125.8, .0155, .0009
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0396,.0154,38.79, .0287, .0505
Mo2020,202.030 {467},Y_2243,ppm, .3359,.2283,67.99, .1744, .4973
Na5895,589.592 { 57},Y_3710,ppm, -.5196,.1252,24.09, -.4311, -.6081
Na8183,818.326 { 41},Y_3710,ppm, -12.71,.7562,5.951, -12.17, -13.24
Ni2316,231.604 {445},In2306,ppm, -.9470,.5264,55.59, -.5748, -1.319
P_1782,178.284 {489},In2306,ppm, 5.315,.5150,9.691, 4.950, 5.679
Pb2203,220.353 {453},In2306,ppm, -5.149,.0112,.2178, -5.141, -5.157
S_1820,182.034 {485},Y_2243,ppm, 1461.,742.1,50.79, 936.3, 1986.
Sb2068,206.833 {463},Y_2243,ppm, -1.699,1.085,63.88, -.9318, -2.467
Se1960,196.090 {472},Y_2243,ppm, .4249,.6265,147.4, -.0181, .8679
Si2516,251.611 {134},Y_3710,ppm, 6.943,4.594,66.16, 3.695, 10.19
Sn1899,189.989 {477},In2306,ppm, -2.200,.0119,.5387, -2.191, -2.208
Sr4215,421.552 { 80},Y_3710,ppm, -.0023,.0096,412.8, .0045, -.0091
Ti3349,334.904 {101},Y_3600,ppm, .0485,.0141,29.13, .0385, .0585
Tl1908,190.856 {477},In2306,ppm, -5.411,.1253,2.316, -5.322, -5.499
V_2924,292.402 {115},Y_3600,ppm, -.2802,.1079,38.53, -.2039, -.3565
Zn2062,206.200 {463},In2306,ppm, 2.283,.2606,11.41, 2.099, 2.467

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 13.170,7.7428,58.789,18.645,7.6955
In2306,230.606 {446},Cts/S, 4.9157,.67014,13.633,5.3895,4.4418
Y_2243,224.306 {450},Cts/S, 34.234,15.360,44.868,45.095,23.373
Y_3600,360.073 { 94},Cts/S, 1211.3,343.53,28.359,1454.3,968.43
Y_3710,371.030 { 91},Cts/S, 708.62,237.27,33.484,876.40,540.85

A100112

Method: 20076010 10/01/12 08:27:45 AM page 1

METHOD INFORMATION **

Sample Introduction Device: Normal
Calibration Mode: Concentration

Default Setup:

Number of Repeats : 2	Auto-store Analysis Data? Yes
Flush Time (sec) : 45.0	Auto-store Stdzn Data? Yes
Auto-Increment Sample Names? No	Store Individual Repeats? No
	Auto-print Analysis Data? Yes
	Auto-print Stdzn Report : +Readback
	Condensed Print Format? Yes

Default File Names:

Analysis Data File : A100112	Autosampler Table : TRAVIS
	Sample Limits Table : LCTAB
Calibration Data File : CALDATA	Blank Limits Table : BLCTAB
Calibration Stds Table : CALSTDS	QC Check Table : LCTAB

♀
Standardization Rpt. 10/01/12 08:42:11 AM page 1

Method: 20076010 Standard: S0
Run Time: 10/01/12 08:38:48

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avge	.01082	.00097	-.00045	.00003	-.11584	.00097	.00341
SDev	.00007	.00024	.00016	.00007	.00072	.00217	.00098
%RSD	.63853	24.478	36.331	282.73	.61966	224.44	28.892
#1	.01077	.00080	-.00034	.00008	-.11635	-.00057	.00271
#2	.01087	.00114	-.00057	-.00003	-.11533	.00250	.00410

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avge	.00705	-.00019	-.00079	.00701	.00074	.06356	.03532
SDev	.00022	.00027	.00016	.00009	.00024	.00014	.00002
%RSD	3.0717	141.42	20.830	1.2657	32.219	.22202	.06687
#1	.00690	.00000	-.00067	.00695	.00057	.06346	.03530
#2	.00720	-.00039	-.00090	.00707	.00090	.06366	.03534

Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avge	.00009	-.00015	-.00106	.42266	.05821	-.00023	-.00231
SDev	.00002	.00007	.00000	.00034	.00033	.00000	.00020
%RSD	20.239	47.108	.03652	.08012	.55940	.03651	8.7271
#1	.00010	-.00010	-.00106	.42242	.05798	-.00023	-.00245
#2	.00008	-.00021	-.00106	.42290	.05844	-.00023	-.00217

Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avge	.22738	-.00576	-.00187	.00048	-.00560	-.00009	.00338
SDev	.00023	.00029	.00064	.00100	.00026	.00002	.00069
%RSD	.09999	5.1099	34.171	210.27	4.5985	20.167	20.476
#1	.22722	-.00597	-.00232	-.00023	-.00579	-.00008	.00289
#2	.22754	-.00555	-.00142	.00119	-.00542	-.00010	.00387

Elem	2203/1	2203/2	1960/1	1960/2

Page 1

A100112

Avge	.00842	-.00364	-.00936	.00534
SDev	.00026	.00709	.00169	.00062
%RSD	3.0732	194.55	18.105	11.578
#1	.00860	-.00865	-.00816	.00491
#2	.00823	.00137	-.01056	.00578

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38730	--	--	--	--	--	--
SDev	14.14214	--	--	--	--	--	--
%RSD	.0365147	--	--	--	--	--	--
#1	38720	--	--	--	--	--	--
#2	38740	--	--	--	--	--	--

♀

Method: 20076010 Standard: STD
Run Time: 10/01/12 08:42:46

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avge	1.1055	1.2202	1.4462	14.104	25.229	8.7266	14.924
SDev	.0020	.0031	.0061	.015	.000	.0151	.016
%RSD	.18497	.25425	.42068	.10712	.00089	.17358	.10823
#1	1.1069	1.2224	1.4505	14.114	25.228	8.7373	14.935
#2	1.1041	1.2180	1.4419	14.093	25.229	8.7159	14.912

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avge	3.0215	2.3599	1.4019	1.6717	5.2305	23.305	1.3725
SDev	.0028	.0017	.0014	.0023	.0027	.044	.0021
%RSD	.09144	.07259	.09924	.13593	.05254	.18687	.15065
#1	3.0234	2.3611	1.4029	1.6733	5.2324	23.336	1.3740
#2	3.0195	2.3587	1.4010	1.6701	5.2286	23.274	1.3710

Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avge	2.0550	1.9623	8.2547	3.2620	1.1389	.88717	.17806
SDev	.0017	.0017	.0206	.0051	.0089	.00127	.00047
%RSD	.08289	.08727	.24975	.15634	.78232	.14264	.26570
#1	2.0562	1.9611	8.2401	3.2657	1.1452	.88806	.17839
#2	2.0538	1.9636	8.2693	3.2584	1.1326	.88627	.17772

Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avge	19.552	47.343	.37831	2.9565	12.270	.62284	3.9558
SDev	.041	.061	.00095	.0023	.008	.00062	.0043
%RSD	.21158	.12838	.25062	.07707	.06405	.09889	.10986
#1	19.581	47.386	.37764	2.9549	12.275	.62328	3.9589
#2	19.522	47.300	.37898	2.9581	12.264	.62240	3.9527

Elem	2203/1	2203/2	1960/1	1960/2
Avge	3.7750	8.2824	1.3565	1.3227
SDev	.0117	.0123	.0019	.0005
%RSD	.31092	.14847	.14231	.03919
#1	3.7833	8.2911	1.3579	1.3223
#2	3.7667	8.2737	1.3552	1.3231

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38100	--	--	--	--	--	--
SDev	61.51829	--	--	--	--	--	--
%RSD	.1614632	--	--	--	--	--	--
#1	38057	--	--	--	--	--	--
#2	38144	--	--	--	--	--	--

♀

Method: 20076010 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	STD	S0	18.2702	-.197655	10/01/12 08:42:46
Sb2068	206.838	STD	S0	1.64583	-.001593	10/01/12 08:42:46
As1890	189.042	STD	S0	1.36910	.000619	10/01/12 08:42:46
Ba4934	493.409	STD	S0	.141808	-.000004	10/01/12 08:42:46
Be3130	313.042	STD	S0	.039482	.004574	10/01/12 08:42:46
B_2496	249.678	STD	S0	.229210	-.000222	10/01/12 08:42:46
Cd2265	226.502	STD	S0	.067155	-.000229	10/01/12 08:42:46
Ca3179	317.933	STD	S0	6.63474	-.046767	10/01/12 08:42:46
Cr2677	267.716	STD	S0	.847413	.000164	10/01/12 08:42:46
Co2286	228.616	STD	S0	1.42580	.001123	10/01/12 08:42:46
Cu3247	324.753	STD	S0	1.20077	-.008417	10/01/12 08:42:46
Fe2714	271.441	STD	S0	3.66594	-.002697	10/01/12 08:42:46
Li6707	670.784	STD	S0	.086053	-.005469	10/01/12 08:42:46
Pb2203	220.353		NONE	.000000	.000000	*10/01/12 08:42:46
Se1960	196.026		NONE	.000000	.000000	*10/01/12 08:42:46
Mg2790	279.078	STD	S0	14.9568	-.528297	10/01/12 08:42:46
Mn2576	257.610	STD	S0	.973476	-.000088	10/01/12 08:42:46
Mo2020	202.030	STD	S0	1.01911	.000158	10/01/12 08:42:46
Ni2316	231.604	STD	S0	.242255	.000256	10/01/12 08:42:46
K_7664	766.491	STD	S0	7.04376	-2.97709	10/01/12 08:42:46
Si2881	288.158	STD	S0	1.83363	-.106737	10/01/12 08:42:46
Ag3280	328.068	STD	S0	1.12720	.000262	10/01/12 08:42:46
Na3302	330.232	STD	S0	110.885	.256245	10/01/12 08:42:46
Na5889	588.995	STD	S0	1.03497	-.235333	10/01/12 08:42:46
Sr4215	421.552	STD	S0	.021130	.000122	10/01/12 08:42:46
Tl1908	190.864	STD	S0	5.27752	.009880	10/01/12 08:42:46
Sn1899	189.989	STD	S0	.676580	-.000323	10/01/12 08:42:46
Ti3349	334.941	STD	S0	.162929	.000913	10/01/12 08:42:46
V_2924	292.402	STD	S0	3.17987	.000287	10/01/12 08:42:46
Zn2138	213.856	STD	S0	.506639	-.001714	10/01/12 08:42:46
2203/1	220.351	STD	S0	.534088	-.004496	10/01/12 08:42:46
2203/2	220.352	STD	S0	.240467	.000876	10/01/12 08:42:46
1960/1	196.021	STD	S0	1.46609	.013722	10/01/12 08:42:46
1960/2	196.022	STD	S0	1.51504	-.008097	10/01/12 08:42:46

Method: 20076010

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	S0	.000000	.000000	-.000000
		STD	2.00000	2.00666	-.006658

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	S0	.000000	.000000	-.000000
		STD	2.00000	1.98066	.019338

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	S0	.000000	.000000	-.000000

		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	S0	.000000	-.000000	.000000
		STD	1.00000	1.00064	-.000640

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	S0	.000000	-.000000	.000000
		STD	1.00000	1.00198	-.001980

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	S0	.000000	.000000	-.000000
		STD	2.00000	1.99894	.001060

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	S0	.000000	-.000000	.000000
		STD	20.0000	19.1720	.828014

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li6707	670.784	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000

A100112

			.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
			.000000	.000000	.000000

Standardization Readback Report 10/01/12 08:46:16 AM page 5

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	.000000	-.000000
		STD	2.00000	2.00038	-.000380

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si2881	288.158	S0	.000000	-.000000	.000000
		STD	2.00000	1.98159	.018410

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	-.000000	.000000
		STD	1.00000	1.00027	-.000274

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na3302	330.232	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	-.000000	.000000
		STD	1.00000	1.00048	-.000480

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration

Tl1908	190.864	S0	.000000	.000000	-.000000
		STD	2.00000	2.00644	-.006442

♀

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	S0	.000000	-.000000	.000000
		STD	2.00000	1.98084	.019164

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	.000000	-.000000
		STD	2.00000	2.00245	-.002452

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	S0	.000000	-.000000	.000000
		STD	2.00000	2.01167	-.011672

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	S0	.000000	-.000000	.000000
		STD	2.00000	1.99251	.007490

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	S0	.000000	-.000000	.000000
		STD	2.00000	2.00251	-.002508

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	S0	.000000	.000000	-.000000
		STD	2.00000	1.99584	.004162

♀

Method: 20076010 Sample Name: S2 met0912cal_00001 Operator: DCL
Run Time: 10/01/12 08:50:12
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.839	1.9935	2.0003	1.9853	1.0055	1.9969	1.0045
SDev	.005	.0003	.0021	.0036	.0015	.0018	.0018
%RSD	.02651	.01331	.10734	.18365	.15334	.08997	.18291
#1	19.843	1.9934	2.0019	1.9879	1.0066	1.9981	1.0058
#2	19.835	1.9937	1.9988	1.9827	1.0044	1.9956	1.0032

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.048	2.0045	2.0039	1.9818	20.030	1.9740	1.9983
SDev	.026	.0028	.0026	.0022	.027	.0005	.0094
%RSD	.12914	.14015	.12988	.11185	.13578	.02448	.46958
#1	20.067	2.0065	2.0057	1.9834	20.050	1.9744	2.0050
#2	20.030	2.0025	2.0020	1.9803	20.011	1.9737	1.9917

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9906	20.045	2.0006	2.0019	2.0181	19.731	1.9628
SDev	.0008	.034	.0034	.0042	.0045	.006	.0057
%RSD	.03989	.16788	.17241	.20932	.22484	.02966	.29190
#1	1.9912	20.068	2.0031	2.0049	2.0213	19.736	1.9669
#2	1.9901	20.021	1.9982	1.9989	2.0149	19.727	1.9588

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99437	19.703	19.744	.99154	2.0039	2.0138	1.9927
SDev	.00069	.064	.008	.00188	.0027	.0044	.0044
%RSD	.06991	.32284	.04072	.18944	.13613	.21918	.21854
#1	.99486	19.658	19.738	.99287	2.0020	2.0169	1.9958
#2	.99388	19.748	19.750	.99021	2.0059	2.0107	1.9896

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9964	2.0001	1.9936	2.0007	1.9783	1.9968
SDev	.0032	.0021	.0143	.0069	.0061	.0018
%RSD	.16006	.10384	.71565	.34697	.30658	.09221
#1	1.9987	2.0016	2.0037	2.0056	1.9825	1.9955
#2	1.9942	1.9987	1.9836	1.9958	1.9740	1.9981

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38722	--	--	--	--	--	--
SDev	115.2584	--	--	--	--	--	--
%RSD	.2976600	--	--	--	--	--	--

Analysis Report 10/01/12 08:53:59 AM page 2

#1	38640	--	--	--	--	--	--
#2	38803	--	--	--	--	--	--

Method: 20076010 Sample Name: ICV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 08:54:03
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4793	.49345	.49892	.48933	.50342	.49733	.50089
SDev	.0056	.00085	.00053	.00011	.00002	.00138	.00035
%RSD	.22656	.17176	.10561	.02177	.00352	.27685	.07043

#1	2.4753	.49405	.49855	.48925	.50341	.49830	.50064
#2	2.4832	.49285	.49930	.48940	.50344	.49636	.50114

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.471	.50058	.50215	.49483	2.5077	.44539	.49494
SDev	.004	.00026	.00005	.00055	.0164	.00011	.00166
%RSD	.03607	.05300	.00957	.11017	.65521	.02458	.33537
#1	12.468	.50040	.50212	.49445	2.4961	.44547	.49611
#2	12.475	.50077	.50218	.49522	2.5193	.44531	.49376

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49470	5.0051	.49852	.51097	.50414	11.897	.92716
SDev	.00134	.0013	.00010	.00347	.00034	.003	.00149
%RSD	.26994	.02566	.01969	.68017	.06665	.02283	.16069
#1	.49564	5.0042	.49845	.51343	.50390	11.895	.92611
#2	.49375	5.0060	.49859	.50851	.50438	11.899	.92821

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24666	12.308	11.866	.24243	.51166	.50744	.49563
SDev	.00021	.034	.011	.00004	.00091	.00220	.00001
%RSD	.08658	.27996	.08875	.01555	.17820	.43323	.00281
#1	.24651	12.284	11.874	.24240	.51101	.50589	.49562
#2	.24681	12.333	11.859	.24246	.51230	.50900	.49564

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50287	.50739	.49178	.49652	.49354	.49533
SDev	.00023	.00134	.00253	.00122	.00538	.00069
%RSD	.04643	.26322	.51496	.24643	1.0899	.13857
#1	.50303	.50645	.49357	.49738	.49735	.49485
#2	.50270	.50834	.48999	.49565	.48974	.49582

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 08:57:50 AM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39176	--	--	--	--	--	--
SDev	33.94112	--	--	--	--	--	--
%RSD	.0866375	--	--	--	--	--	--
#1	39200	--	--	--	--	--	--
#2	39152	--	--	--	--	--	--

Method: 20076010 Sample Name: ICB Operator: DCL
Run Time: 10/01/12 08:57:53
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00346	.00043	-.00086	-.00007	.00011	.00260	.00012
SDev	.01024	.00547	.00314	.00021	.00006	.00001	.00006

%RSD	296.08	1276.0	364.79	284.04	55.024	.24761	53.649
#1	-.01070	-.00344	-.00308	-.00023	.00007	.00261	.00016
#2	.00378	.00430	.00136	.00008	.00015	.00260	.00007

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00384	-.00033	.00029	-.00042	.01880	.00010	-.00018
SDev	.00055	.00158	.00010	.00125	.00836	.00006	.00004
%RSD	14.369	481.46	34.029	295.93	44.494	61.177	24.975
#1	-.00423	-.00144	.00035	-.00130	.02471	.00006	-.00015
#2	-.00345	.00079	.00022	.00046	.01288	.00015	-.00021

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00258	.00424	-.00010	.00482	.00044	.00963	-.00337
SDev	.00083	.00886	.00019	.00161	.00054	.03040	.00588
%RSD	32.151	209.14	191.04	33.468	122.77	315.51	174.26
#1	.00317	-.00203	-.00024	.00596	.00006	-.01186	-.00753
#2	.00200	.01050	.00004	.00368	.00082	.03113	.00078

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.08524	-.00121	-.00002	.00577	-.00027	-.00002
SDev	.00028	.06890	.00240	.00009	.00140	.00056	.00047
%RSD	121.67	80.833	198.65	461.82	24.265	205.54	1930.2
#1	.00044	.13397	-.00290	-.00008	.00677	-.00067	-.00036
#2	.00003	.03652	.00049	.00004	.00478	.00012	.00031

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.00014	.00520	-.00286	.01163	-.00194
SDev	.00142	.00039	.01335	.00661	.01110	.00430
%RSD	1129.1	281.62	256.74	230.73	95.476	222.05
#1	-.00088	-.00042	.01464	-.00754	.01947	-.00498

#2	.00113	.00014	-.00424	.00181	.00378	.00111

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39178	--	--	--	--	--	--
SDev	261.6295	--	--	--	--	--	--
%RSD	.6677970	--	--	--	--	--	--
#1	38993	--	--	--	--	--	--
#2	39363	--	--	--	--	--	--

Method: 20076010 Sample Name: CRI met0912low_00006 Operator: DCL
Run Time: 10/01/12 09:01:44
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12451	.01336	.00997	.01067	.00526	.01620	.00522

SDev	.00076	.00210	.00035	.00006	.00001	.00003	.00005
%RSD	.60804	15.733	3.4706	.54425	.15638	.17287	.90380
#1	.12505	.01188	.01021	.01063	.00525	.01618	.00525
#2	.12398	.01485	.00973	.01071	.00526	.01622	.00518

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15315	.01085	.01042	.01082	.11521	.00868	.01055
SDev	.00125	.00024	.00000	.00015	.00507	.00000	.00073
%RSD	.81865	2.2209	.02733	1.3429	4.4055	.04994	6.8748
#1	.15227	.01068	.01043	.01072	.11880	.00868	.01107
#2	.15404	.01102	.01042	.01092	.11162	.00868	.01004

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00904	.10095	.01055	.01303	.01093	.52607	.01116
SDev	.00079	.00089	.00010	.00002	.00018	.00667	.00023
%RSD	8.7592	.87696	.96634	.17124	1.6678	1.2677	2.0658
#1	.00960	.10032	.01048	.01304	.01106	.52136	.01099
#2	.00848	.10157	.01062	.01301	.01080	.53079	.01132

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00507	.61226	.58071	.00540	.01301	.01181	.01056
SDev	.00014	.05184	.00148	.00001	.00085	.00192	.00004
%RSD	2.7733	8.4667	.25561	.13169	6.5729	16.273	.38941
#1	.00497	.57560	.57966	.00539	.01240	.01045	.01059
#2	.00517	.64891	.58176	.00540	.01361	.01317	.01053

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01078	.01421	.01006	.01080	.01003	.00855	♀

SDev	.00034	.00057	.00086	.00152	.00293	.00265
%RSD	3.1565	4.0173	8.5706	14.070	29.250	31.055
#1	.01054	.01381	.00945	.01188	.00795	.01042
#2	.01102	.01461	.01067	.00973	.01210	.00667

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39244	--	--	--	--	--	--
SDev	12.02082	--	--	--	--	--	--
%RSD	.0306314	--	--	--	--	--	--
#1	39235	--	--	--	--	--	--
#2	39252	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSA metisa_00078 Operator: DCL
Run Time: 10/01/12 09:05:35
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	476.20	.00165	.00089	.00181	-.00030	.00191	-.00066
SDev	.53	.00157	.00085	.00003	.00002	.00047	.00005
%RSD	.11114	94.798	96.123	1.4733	6.6639	24.733	7.2929
#1	475.82	.00276	.00149	.00183	-.00032	.00158	-.00063
#2	476.57	.00055	.00028	.00179	-.00029	.00224	-.00070

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	454.25	.00173	-.00040	.01377	197.36	.00446	.01315
SDev	.91	.00007	.00060	.00009	.52	.00005	.00186
%RSD	.19932	4.0333	151.78	.63838	.26520	1.0851	14.134
#1	454.89	.00168	.00003	.01383	197.73	.00450	.01183
#2	453.61	.00178	-.00082	.01371	196.99	.00443	.01446

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01212	520.24	-.00762	.00010	.00081	.17041	.01401
SDev	.00132	.51	.00003	.00049	.00071	.00960	.00032
%RSD	10.929	.09828	.35388	493.42	87.283	5.6310	2.2514
#1	-.01306	520.61	-.00760	.00045	.00132	.17719	.01424
#2	-.01118	519.88	-.00764	-.00025	.00031	.16362	.01379

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00073	.00558	.16672	-.00888	-.04106	.00097	-.00279
SDev	.00023	.07382	.00216	.00003	.00272	.00189	.00032
%RSD	31.094	1321.8	1.2954	.38676	6.6289	193.90	11.651
#1	-.00057	.05779	.16825	-.00890	-.04299	.00231	-.00256
#2	-.00089	-.04662	.16519	-.00885	-.03914	-.00036	-.00302

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00413	.00067	-.01893	.02919	-.00188	-.01724
SDev	.00019	.00095	.00243	.00158	.00176	.00287
%RSD	4.6260	141.64	12.813	5.3949	93.406	16.624
#1	.00400	-.00000	-.02065	.02807	-.00064	-.01927
#2	.00427	.00134	-.01721	.03030	-.00313	-.01521

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35174	--	--	--	--	--	--
SDev	36.76955	--	--	--	--	--	--
%RSD	.1045362	--	--	--	--	--	--
#1	35200	--	--	--	--	--	--
#2	35148	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb_00080 Operator: DCL
Run Time: 10/01/12 09:09:26
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	483.45	1.0610	1.0548	1.0475	.50843	1.0576	.48821
SDev	.26	.0028	.0049	.0008	.00008	.0016	.00008
%RSD	.05351	.26167	.46787	.07446	.01631	.15091	.01601
#1	483.27	1.0629	1.0583	1.0481	.50849	1.0587	.48827
#2	483.63	1.0590	1.0513	1.0469	.50838	1.0564	.48816

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	459.14	1.0019	.98486	1.1053	205.97	1.1998	1.0157
SDev	.07	.0006	.00038	.0004	.23	.0001	.0002
%RSD	.01602	.05642	.03865	.03606	.11233	.00635	.01959
#1	459.08	1.0023	.98512	1.1056	205.80	1.1999	1.0159
#2	459.19	1.0015	.98459	1.1051	206.13	1.1998	1.0156

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0437	528.65	.99834	1.0219	.96735	14.215	1.0108
SDev	.0069	.30	.00028	.0012	.00169	.001	.0013
%RSD	.66086	.05758	.02798	.11419	.17473	.00726	.13347
#1	1.0389	528.43	.99814	1.0211	.96615	14.216	1.0099
#2	1.0486	528.86	.99853	1.0228	.96854	14.215	1.0118

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55400	11.713	13.214	.50077	.95712	1.0372	1.0173
SDev	.00032	.112	.001	.00028	.00072	.0017	.0001

%RSD	.05767	.95606	.00946	.05520	.07552	.16575	.00768
#1	.55377	11.792	13.213	.50097	.95661	1.0384	1.0173
#2	.55422	11.634	13.215	.50058	.95763	1.0360	1.0172

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0135	1.0553	1.0037	1.0218	1.0629	1.0342
SDev	.0006	.0059	.0022	.0008	.0059	.0074
%RSD	.05922	.55931	.21856	.07812	.55849	.71345
#1	1.0131	1.0512	1.0052	1.0212	1.0587	1.0289
#2	1.0139	1.0595	1.0021	1.0223	1.0671	1.0394

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35177	--	--	--	--	--	--
SDev	8.485281	--	--	--	--	--	--
%RSD	.0241217	--	--	--	--	--	--
#1	35171	--	--	--	--	--	--
#2	35183	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 09:13:16
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

A100112

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4867	.49211	.49314	.48625	.49887	.49287	.49653
SDev	.0179	.00344	.00174	.00421	.00399	.00538	.00394
%RSD	.71811	.69953	.35371	.86549	.80052	1.0918	.79273
#1	2.4993	.49454	.49437	.48922	.50170	.49667	.49932
#2	2.4741	.48967	.49190	.48327	.49605	.48906	.49375

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.352	.49703	.49825	.49258	2.4957	.44444	.49546
SDev	.103	.00428	.00416	.00367	.0076	.00356	.00489
%RSD	.83109	.86115	.83562	.74418	.30432	.80016	.98621
#1	12.425	.50006	.50120	.49517	2.5010	.44695	.49891
#2	12.280	.49401	.49531	.48999	2.4903	.44192	.49200

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49519	4.9819	.49501	.50462	.49943	11.866	.91976
SDev	.00036	.0454	.00418	.00417	.00526	.085	.00952
%RSD	.07164	.91203	.84507	.82652	1.0525	.71992	1.0353
#1	.49545	5.0140	.49797	.50756	.50314	11.926	.92650
#2	.49494	4.9497	.49205	.50167	.49571	11.805	.91303

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24559	12.300	11.852	.24102	.50706	.50280	.49266
SDev	.00251	.087	.100	.00208	.00321	.00138	.00392
%RSD	1.0220	.70463	.84374	.86476	.63296	.27366	.79651
#1	.24737	12.362	11.923	.24249	.50933	.50377	.49544
#2	.24382	12.239	11.781	.23954	.50479	.50183	.48989

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49934	.50849	.50053	.49292	.50086	.49242
SDev	.00420	.00451	.00200	.00633	.00097	.00005
%RSD	.84176	.88786	.40050	1.2836	.19397	.00951
#1	.50231	.50529	.50195	.49739	.50155	.49245
#2	.49637	.51168	.49911	.48844	.50018	.49238

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39496	--	--	--	--	--	--
SDev	127.9863	--	--	--	--	--	--
%RSD	.3240447	--	--	--	--	--	--
#1	39406	--	--	--	--	--	--
#2	39587	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 09:17:07
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00428	.00384	-.00023	.00008	.00015	.00313	.00004
SDev	.00058	.00020	.00058	.00009	.00006	.00022	.00022
%RSD	13.551	5.2618	248.62	115.91	39.920	7.0417	523.19
#1	.00387	.00370	-.00064	.00001	.00011	.00298	-.00011
#2	.00469	.00398	.00018	.00015	.00019	.00329	.00020

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00397	.00051	.00019	.00012	-.00078	-.00003	-.00001
SDev	.00117	.00027	.00071	.00010	.01498	.00000	.00005
%RSD	29.418	53.318	367.97	80.117	1911.3	12.600	616.79
#1	-.00480	.00032	-.00031	.00020	-.01138	-.00004	.00003
#2	-.00315	.00070	.00069	.00005	.00981	-.00003	-.00004

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00097	.00157	-.00000	.00347	-.00021	-.01920	-.00047
SDev	.00047	.00372	.00005	.00057	.00008	.00215	.00047
%RSD	48.190	236.92	3585.2	16.359	35.343	11.210	99.730

♀

#1	-.00064	-.00106	-.00004	.00307	-.00027	-.02072	-.00080
#2	-.00130	.00420	.00004	.00387	-.00016	-.01767	-.00014

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	.00385	-.01338	.00003	.00491	.00181	.00014
SDev	.00037	.13093	.00025	.00003	.00185	.00044	.00013
%RSD	324.85	3401.3	1.8872	93.260	37.592	24.169	94.345
#1	-.00038	-.08873	-.01356	.00001	.00622	.00150	.00005
#2	.00015	.09643	-.01320	.00005	.00361	.00212	.00023

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00044	-.00152	.00075	-.00038	-.00126
SDev	.00052	.00091	.00228	.00106	.00092	.00024
%RSD	86.159	205.37	149.79	142.11	238.74	19.110
#1	.00023	-.00020	.00009	-.00000	.00026	-.00109
#2	.00097	.00109	-.00313	.00150	-.00103	-.00143

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39220	--	--	--	--	--	--
SDev	463.1549	--	--	--	--	--	--
%RSD	1.180900	--	--	--	--	--	--
#1	38893	--	--	--	--	--	--
#2	39548	--	--	--	--	--	--

♀

Method: 20076010 Sample Name: mb 600-89637/1-a Operator: DCL

Run Time: 10/01/12 09:23:24
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00247	.00292	.00021	.00013	.00011	.00072	.00025
SDev	.00847	.00430	.00040	.00013	.00002	.00087	.00005
%RSD	342.86	147.47	194.29	102.02	16.630	120.96	18.768
#1	.00846	.00596	.00049	.00022	.00009	.00133	.00022
#2	-.00352	-.00012	-.00008	.00004	.00012	.00010	.00028

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01547	.00034	.00001	.00005	.02067	-.00016	.00066
SDev	.00000	.00073	.00007	.00043	.00530	.00004	.00035
%RSD	.02201	216.25	483.75	843.91	25.669	24.087	52.101
#1	-.01547	.00086	.00006	.00036	.01692	-.00014	.00042
#2	-.01547	-.00018	-.00003	-.00026	.02442	-.00019	.00091

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00133	-.01303	.00006	.00137	.00080	-.06031	.00052
SDev	.00115	.00292	.00011	.00019	.00038	.02414	.00385
%RSD	86.507	22.376	172.69	14.117	48.120	40.021	745.32
#1	-.00052	-.01097	.00014	.00123	.00107	-.04325	.00324
#2	-.00215	-.01509	-.00001	.00150	.00053	-.07738	-.00220

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.16851	-.01632	-.00000	-.00021	.03083	-.00018
SDev	.00008	.02067	.00104	.00004	.00049	.00014	.00029
%RSD	45.774	12.268	6.4005	1945.8	232.55	.46694	159.28
#1	.00023	.15390	-.01559	.00003	.00014	.03094	.00002
#2	.00012	.18313	-.01706	-.00003	-.00056	.03073	-.00039

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	-.00053	.00463	-.00132	-.00055	-.00173
SDev	.00051	.00003	.00585	.00240	.00193	.00270
%RSD	283.86	5.0579	126.24	182.09	353.16	156.28
#1	.00054	-.00055	.00050	.00038	-.00192	.00018
#2	-.00018	-.00051	.00876	-.00302	.00082	-.00363

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39217	--	--	--	--	--	--
SDev	304.0559	--	--	--	--	--	--
%RSD	.7753166	--	--	--	--	--	--

Analysis Report 10/01/12 09:27:11 AM page 2

#1	39002	--	--	--	--	--	--
#2	39432	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-89637/2-a Operator: DCL
Run Time: 10/01/12 09:27:14
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	86.375	.65620	1.2935	2.4478	1.4351	.81095	.62611
SDev	.073	.00093	.0083	.0024	.0017	.00050	.00071
%RSD	.08507	.14095	.64267	.09855	.11740	.06208	.11314
#1	86.323	.65555	1.2993	2.4495	1.4363	.81130	.62662
#2	86.427	.65686	1.2876	2.4461	1.4339	.81059	.62561

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	85.063	.95173	1.3027	1.0312	174.99	.08196	1.3360
SDev	.034	.00003	.0024	.0012	.16	.00003	.0018
%RSD	.03990	.00308	.18212	.11800	.08896	.03908	.13419
#1	85.087	.95175	1.3044	1.0321	175.10	.08198	1.3372
#2	85.039	.95171	1.3010	1.0304	174.88	.08193	1.3347

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8470	39.663	4.7851	.84303	1.1633	44.409	21.100
SDev	.0042	.011	.0034	.00108	.0026	.146	.007
%RSD	.22812	.02811	.07066	.12755	.22016	.32897	.03188
#1	1.8499	39.671	4.7875	.84227	1.1651	44.512	21.096
#2	1.8440	39.655	4.7828	.84379	1.1615	44.306	21.105

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42395	4.0049	6.1150	2.2442	1.5147	1.5028	4.3248
SDev	.00049	.0452	.0034	.0039	.0101	.0010	.0000
%RSD	.11519	1.1283	.05633	.17494	.66909	.06873	.00026
#1	.42429	4.0369	6.1174	2.2469	1.5076	1.5021	4.3248
#2	.42360	3.9730	6.1126	2.2414	1.5219	1.5036	4.3248

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.62516	2.1162	1.3496	1.3291	1.8615	1.8397
SDev	.00060	.0030	.0085	.0015	.0095	.0016
%RSD	.09571	.14393	.62637	.11569	.51148	.08477
#1	.62558	2.1184	1.3556	1.3280	1.8682	1.8408
#2	.62474	2.1141	1.3436	1.3302	1.8548	1.8386

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41264	--	--	--	--	--	--
SDev	120.9153	--	--	--	--	--	--
%RSD	.2930249	--	--	--	--	--	--

#1	41179	--	--	--	--	--	--
#2	41350	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-3-a Operator: DCL
Run Time: 10/01/12 09:31:05
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	118.78	.00750	.06226	1.5703	.01799	.05580	.00166
SDev	.31	.00356	.00057	.0052	.00004	.00109	.00010
%RSD	.26065	47.513	.91194	.33126	.20858	1.9576	6.1801
#1	119.00	.00498	.06186	1.5740	.01801	.05658	.00173
#2	118.56	.01002	.06266	1.5667	.01796	.05503	.00159

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	433.15	.26082	.03871	.13366	91.569	.10170	.34543
SDev	.44	.00013	.00007	.00059	.140	.00043	.00135
%RSD	.10251	.04879	.18406	.43831	.15328	.42707	.39047
#1	433.47	.26091	.03866	.13407	91.668	.10201	.34447
#2	432.84	.26073	.03876	.13324	91.470	.10140	.34638

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00155	71.212	4.3195	.01420	.08995	11.876	30.154
SDev	.00142	.073	.0068	.00174	.00055	.041	.067
%RSD	91.385	.10292	.15659	12.234	.61543	.34877	.22284
#1	.00256	71.264	4.3243	.01542	.08956	11.906	30.202
#2	.00055	71.161	4.3147	.01297	.09035	11.847	30.106

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00095	2.8330	3.3304	.72117	-.01669	.04017	.61441
SDev	.00010	.0275	.0146	.00203	.00050	.00098	.00181
%RSD	10.643	.97240	.43769	.28189	3.0002	2.4432	.29532
#1	-.00102	2.8135	3.3407	.72260	-.01633	.04087	.61569
#2	-.00088	2.8524	3.3201	.71973	-.01704	.03948	.61312

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19832	.76040	.33927	.34851	-.00067	.00266
SDev	.00037	.00130	.00191	.00107	.00043	.00191
%RSD	.18766	.17069	.56410	.30595	65.113	71.844
#1	.19859	.76131	.33792	.34775	-.00036	.00402

#2	.19806	.75948	.34062	.34926	-.00097	.00131

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40516	--	--	--	--	--	--
SDev	84.14571	--	--	--	--	--	--
%RSD	.2076877	--	--	--	--	--	--

#1	40456	--	--	--	--	--	--
#2	40575	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-3-b du Operator: DCL
Run Time: 10/01/12 09:34:56
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.923	.00602	.06482	.83741	.00582	.03659	.00079
SDev	.080	.00154	.00121	.00042	.00003	.00054	.00009
%RSD	.12537	25.564	1.8641	.04969	.44891	1.4816	11.890
#1	63.866	.00493	.06568	.83711	.00580	.03697	.00072
#2	63.979	.00710	.06397	.83770	.00583	.03621	.00085

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	223.69	.17841	.03891	.10108	84.853	.05722	.22504
SDev	.45	.00026	.00019	.00022	.142	.00008	.00160
%RSD	.20162	.14865	.47754	.22092	.16700	.14681	.71215
#1	223.37	.17822	.03878	.10092	84.753	.05716	.22391
#2	224.01	.17860	.03904	.10124	84.953	.05728	.22617

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00323	20.399	2.4691	.00983	.08028	8.9514	21.028
SDev	.00075	.038	.0045	.00018	.00038	.0213	.020
%RSD	23.222	.18408	.18146	1.8350	.47065	.23778	.09446
#1	-.00270	20.372	2.4659	.00996	.08002	8.9364	21.014
#2	-.00376	20.425	2.4722	.00970	.08055	8.9665	21.042

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00051	1.1586	1.2915	.39155	-.01916	.03778	.40812
SDev	.00031	.0498	.0002	.00043	.00247	.00028	.00064
%RSD	60.991	4.3001	.01807	.11002	12.909	.74507	.15789
#1	-.00074	1.1233	1.2914	.39125	-.01741	.03758	.40766
#2	-.00029	1.1938	1.2917	.39186	-.02091	.03797	.40858

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20410	.52877	.22202	.22655	-.00545	-.00211

SDev	.00071	.00057	.00101	.00291	.00122	.00051
%RSD	.34534	.10771	.45605	1.2846	22.433	24.239
#1	.20361	.52837	.22273	.22449	-.00459	-.00175
#2	.20460	.52917	.22130	.22861	-.00632	-.00248

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40676	--	--	--	--	--	--
SDev	13.43503	--	--	--	--	--	--

%RSD	.0330290	--	--	--	--	--	--
#1	40667	--	--	--	--	--	--
#2	40686	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-3-c ms Operator: DCL
Run Time: 10/01/12 09:38:47
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	152.45	.35309	1.0271	2.2580	.49897	.91345	.46960
SDev	.19	.00089	.0066	.0002	.00071	.00194	.00052
%RSD	.12514	.25289	.64618	.00940	.14189	.21194	.11049
#1	152.59	.35246	1.0224	2.2582	.49847	.91208	.46923
#2	152.32	.35372	1.0318	2.2579	.49947	.91482	.46997

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	241.09	1.2207	1.0177	1.1529	136.75	.61604	1.2269
SDev	.20	.0016	.0006	.0004	.08	.00037	.0008
%RSD	.08196	.13317	.05535	.03390	.05950	.06021	.06221
#1	240.95	1.2195	1.0173	1.1531	136.70	.61630	1.2264
#2	241.23	1.2218	1.0181	1.1526	136.81	.61578	1.2275

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92013	46.898	5.5050	.94910	1.0590	28.142	25.338
SDev	.00099	.022	.0033	.00344	.0001	.033	.001
%RSD	.10807	.04785	.05972	.36220	.00675	.11699	.00333
#1	.92083	46.882	5.5027	.94667	1.0590	28.165	25.338
#2	.91942	46.913	5.5073	.95153	1.0591	28.119	25.339

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50058	11.566	12.433	.86891	.92648	.96869	1.2676
SDev	.00019	.021	.020	.00017	.00956	.00036	.0013
%RSD	.03804	.18526	.16045	.01914	1.0319	.03665	.10325
#1	.50044	11.582	12.447	.86879	.91972	.96844	1.2667
#2	.50071	11.551	12.419	.86903	.93324	.96894	1.2685 ♀

Analysis Report 10/01/12 09:42:35 AM page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2366	1.5803	1.2309	1.2249	.92132	.91953
SDev	.0016	.0006	.0010	.0006	.00399	.00050
%RSD	.12586	.04098	.08350	.05152	.43331	.05486
#1	1.2355	1.5799	1.2302	1.2245	.92415	.91917
#2	1.2377	1.5808	1.2317	1.2254	.91850	.91989

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40471	--	--	--	--	--	--

SDev	21.21320	--	--	--	--	--	--
%RSD	.0524158	--	--	--	--	--	--
#1	40456	--	--	--	--	--	--
#2	40486	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-3-d msd Operator: DCL
Run Time: 10/01/12 09:42:38
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	137.08	.35556	1.0256	2.1447	.49325	.91879	.46678
SDev	.37	.00228	.0095	.0050	.00226	.00155	.00193
%RSD	.26705	.64007	.92663	.23283	.45714	.16888	.41426
#1	136.82	.35395	1.0189	2.1411	.49165	.91769	.46541
#2	137.34	.35717	1.0324	2.1482	.49484	.91989	.46815

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	208.39	1.2473	1.0023	1.1339	134.76	.59291	1.2769
SDev	.87	.0053	.0041	.0043	.54	.00194	.0095
%RSD	.41988	.42380	.40501	.37784	.40431	.32684	.74784
#1	207.77	1.2435	.99942	1.1309	134.37	.59154	1.2702
#2	209.00	1.2510	1.0052	1.1369	135.14	.59428	1.2837

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91361	42.615	5.2597	.94916	1.0569	26.124	25.771
SDev	.00444	.175	.0207	.00627	.0048	.130	.082
%RSD	.48614	.41128	.39280	.66043	.45454	.49784	.31687
#1	.91047	42.491	5.2451	.94473	1.0535	26.032	25.713
#2	.91675	42.739	5.2743	.95359	1.0603	26.216	25.828

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49307	11.305	12.079	.83119	.92336	.95607	1.2730
SDev	.00200	.031	.033	.00287	.00389	.00235	.0044

%RSD	.40540	.27756	.27366	.34580	.42128	.24566	.34430
#1	.49166	11.327	12.056	.82915	.92061	.95441	1.2699
#2	.49448	11.282	12.103	.83322	.92611	.95773	1.2761

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2168	1.6698	1.2802	1.2753	.91246	.91419
SDev	.0049	.0073	.0093	.0097	.00539	.00397
%RSD	.39973	.43778	.72358	.76001	.59042	.43409
#1	1.2134	1.6647	1.2737	1.2684	.90865	.91138
#2	1.2203	1.6750	1.2868	1.2822	.91627	.91699

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	40422	--	--	--	--	--	--
SDev	147.7853	--	--	--	--	--	--
%RSD	.3656107	--	--	--	--	--	--
#1	40526	--	--	--	--	--	--
#2	40317	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-6-a Operator: DCL
Run Time: 10/01/12 09:46:29
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	191.62	.00241	.02899	1.4817	.01429	.02346	-.00120
SDev	6.65	.00080	.00147	.0507	.00035	.00126	.00003
%RSD	3.4697	32.943	5.0623	3.4243	2.4427	5.3797	2.3182
#1	196.32	.00298	.03003	1.5176	.01454	.02435	-.00122
#2	186.92	.00185	.02795	1.4458	.01405	.02257	-.00118

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.095	.19428	.06178	.10332	174.25	.07746	.17669
SDev	1.639	.00695	.00219	.00428	6.04	.00277	.00509
%RSD	3.4074	3.5760	3.5501	4.1422	3.4640	3.5739	2.8789
#1	49.254	.19919	.06334	.10634	178.52	.07942	.18029
#2	46.936	.18937	.06023	.10029	169.99	.07551	.17309

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00201	29.134	.64611	.00708	.09273	9.9765	24.867
SDev	.00017	1.020	.02236	.00218	.00329	.4116	.841
%RSD	8.2290	3.5009	3.4614	30.739	3.5478	4.1255	3.3807
#1	-.00212	29.855	.66193	.00862	.09506	10.268	25.461
#2	-.00189	28.413	.63030	.00554	.09041	9.6855	24.272

♀
Analysis Report 10/01/12 09:50:18 AM page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00210	10.812	10.801	.61292	-.03292	.03735	.17303
SDev	.00004	.315	.367	.02084	.00018	.00255	.00605
%RSD	1.8728	2.9124	3.3967	3.4000	.53258	6.8215	3.4992
#1	-.00208	11.034	11.061	.62766	-.03305	.03915	.17731
#2	-.00213	10.589	10.542	.59818	-.03280	.03555	.16875

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32956	.27956	.16069	.18469	-.00260	-.00171
SDev	.01188	.01002	.00551	.00488	.00354	.00202
%RSD	3.6035	3.5828	3.4258	2.6410	136.29	117.91
#1	.33795	.28664	.16458	.18814	-.00009	-.00314
#2	.32116	.27247	.15680	.18124	-.00510	-.00028

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Wavlen	371.030	--	--	--	--	--	--
Avge	43200	--	--	--	--	--	--
SDev	1296.127	--	--	--	--	--	--
%RSD	3.000259	--	--	--	--	--	--
#1	42284	--	--	--	--	--	--
#2	44117	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-7-a Operator: DCL
Run Time: 10/01/12 09:50:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	125.15	-.00014	.03074	1.3645	.01195	.06187	-.00026
SDev	.50	.00281	.00103	.0032	.00003	.00008	.00005
%RSD	.39681	1944.5	3.3619	.23326	.21385	.13310	20.371
#1	124.80	.00184	.03001	1.3622	.01193	.06193	-.00030
#2	125.50	-.00213	.03147	1.3667	.01197	.06181	-.00023

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	171.97	3.7937	.05134	.16540	195.85	.08496	.16575
SDev	.56	.0142	.00003	.00072	.66	.00030	.00188
%RSD	.32577	.37544	.05617	.43782	.33482	.35051	1.1349
#1	171.57	3.7837	.05136	.16489	195.38	.08475	.16442
#2	172.36	3.8038	.05132	.16591	196.31	.08517	.16708

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01235	37.077	23.326	.03462	.11020	8.8389	22.612
SDev	.00150	.138	.065	.00064	.00014	.0324	.094
%RSD	12.145	.37295	.27912	1.8519	.12263	.36605	.41698

#1	-.01341	36.979	23.280	.03416	.11010	8.8160	22.545
#2	-.01129	37.175	23.373	.03507	.11029	8.8618	22.679

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00185	2.7164	2.9187	.41726	-.05890	.03816	.45230
SDev	.00014	.0041	.0116	.00121	.00340	.00045	.00143
%RSD	7.3486	.15075	.39701	.28988	5.7768	1.1857	.31548
#1	-.00175	2.7135	2.9105	.41641	-.05650	.03784	.45129
#2	-.00194	2.7193	2.9269	.41812	-.06131	.03848	.45331

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.64549	.28775	.15689	.17019	-.01983	-.00861
SDev	.00255	.00162	.00069	.00247	.00182	.00316
%RSD	.39491	.56421	.44323	1.4538	9.1784	36.708
#1	.64369	.28660	.15640	.16844	-.01854	-.01084
#2	.64729	.28890	.15738	.17194	-.02112	-.00637

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	43270	--	--	--	--	--	--
SDev	135.7645	--	--	--	--	--	--
%RSD	.3137613	--	--	--	--	--	--
#1	43366	--	--	--	--	--	--
#2	43174	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-8-a Operator: DCL
Run Time: 10/01/12 09:54:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	136.80	.00279	.14642	2.3609	.01385	.11581	.00697
SDev	.24	.00063	.00514	.0051	.00000	.00042	.00003
%RSD	.17742	22.491	3.5097	.21791	.00186	.36658	.40836
#1	136.97	.00323	.15006	2.3646	.01385	.11611	.00695
#2	136.63	.00234	.14279	2.3573	.01385	.11551	.00699

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1667.9	3.3089	.06314	.47114	442.11	.12008	.72198
SDev	1.1	.0032	.00011	.00147	.42	.00031	.00015
%RSD	.06751	.09667	.18023	.31109	.09436	.25598	.02052
#1	1668.7	3.3112	.06306	.47218	442.40	.12030	.72187
#2	1667.1	3.3067	.06322	.47010	441.81	.11987	.72208

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03429	116.33	40.949	.11447	.36175	14.506	26.226
SDev	.00158	.11	.048	.00056	.00039	.064	.044
%RSD	4.5957	.09768	.11690	.48710	.10673	.44379	.16608
#1	-.03540	116.41	40.983	.11408	.36148	14.551	26.257
#2	-.03317	116.25	40.915	.11487	.36202	14.460	26.195

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	11.790	14.366	4.7968	-.13626	.05400	1.7531
SDev	.00000	.070	.053	.0121	.00378	.00308	.0021
%RSD	.19277	.59459	.36839	.25138	2.7728	5.6968	.11960
#1	.00083	11.839	14.404	4.8054	-.13893	.05618	1.7546
#2	.00082	11.740	14.329	4.7883	-.13359	.05183	1.7516

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.90418	2.5763	.72083	.72255	-.03346	-.03470
SDev	.00080	.0050	.00517	.00281	.00385	.00044
%RSD	.08823	.19531	.71767	.38873	11.494	1.2701
#1	.90474	2.5798	.72448	.72056	-.03618	-.03501
#2	.90361	2.5727	.71717	.72454	-.03074	-.03439

A100112

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37727	--	--	--	--	--	--
SDev	93.33810	--	--	--	--	--	--
%RSD	.2474040	--	--	--	--	--	--
#1	37661	--	--	--	--	--	--
#2	37793	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-9-a Operator: DCL
Run Time: 10/01/12 09:58:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	174.88	.00496	.03440	7.3700	.01470	.04830	.00042
SDev	.18	.00205	.00048	.0025	.00002	.00015	.00015
%RSD	.10310	41.359	1.4070	.03380	.10677	.30173	35.604
#1	175.01	.00351	.03406	7.3682	.01471	.04841	.00053
#2	174.75	.00642	.03474	7.3718	.01469	.04820	.00032

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	599.63	.31982	.09846	.13101	169.14	.13166	.22330
SDev	.51	.00045	.00013	.00014	.05	.00003	.00065
%RSD	.08516	.14198	.12718	.10379	.02971	.02411	.29209

#1	600.00	.32014	.09837	.13091	169.18	.13168	.22376
#2	599.27	.31950	.09855	.13110	169.11	.13164	.22284

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00869	42.395	3.6801	.00789	.14101	15.249	28.162
SDev	.00277	.039	.0016	.00082	.00026	.018	.011
%RSD	31.847	.09301	.04293	10.353	.18346	.11888	.03837
#1	-.01065	42.422	3.6812	.00847	.14119	15.236	28.169
#2	-.00674	42.367	3.6790	.00731	.14083	15.261	28.154

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00306	18.162	19.228	2.0284	-.03853	.03960	.30240
SDev	.00033	.074	.015	.0018	.00556	.00143	.00044
%RSD	10.757	.40968	.07711	.08647	14.419	3.6011	.14560
#1	-.00282	18.214	19.218	2.0272	-.04246	.03859	.30271
#2	-.00329	18.109	19.239	2.0296	-.03460	.04060	.30209

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43427	.36121	.21231	.22879	-.00843	-.00883
SDev	.00018	.00119	.00062	.00129	.00946	.00058
%RSD	.04174	.33046	.29282	.56347	112.24	6.5292
#1	.43414	.36037	.21187	.22970	-.01512	-.00842
#2	.43440	.36205	.21275	.22788	-.00174	-.00924

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42524	--	--	--	--	--	--
SDev	111.0158	--	--	--	--	--	--
%RSD	.2610692	--	--	--	--	--	--
#1	42445	--	--	--	--	--	--
#2	42602	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 10:01:54
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4754	.49331	.49494	.48625	.49807	.49209	.49722
SDev	.0087	.00182	.00472	.00164	.00303	.00176	.00355
%RSD	.35204	.36904	.95312	.33641	.60803	.35749	.71471
#1	2.4815	.49460	.49828	.48741	.50022	.49333	.49974
#2	2.4692	.49202	.49160	.48509	.49593	.49084	.49471

♀
Analysis Report 10/01/12 10:05:42 AM page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.343	.49686	.49742	.49187	2.4924	.44545	.49309
SDev	.084	.00364	.00366	.00183	.0283	.00215	.00348
%RSD	.67780	.73174	.73563	.37248	1.1351	.48227	.70504
#1	12.402	.49943	.50001	.49317	2.5124	.44697	.49554
#2	12.284	.49428	.49483	.49058	2.4724	.44393	.49063

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49307	4.9539	.49259	.50431	.49875	11.857	.96406
SDev	.00333	.0345	.00285	.00115	.00387	.066	.01792
%RSD	.67610	.69575	.57828	.22849	.77575	.55818	1.8582
#1	.49543	4.9783	.49460	.50349	.50149	11.904	.97673
#2	.49071	4.9295	.49057	.50512	.49602	11.810	.95140

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24568	12.138	11.863	.23979	.50307	.50462	.49497
SDev	.00155	.258	.048	.00075	.00016	.00347	.00252
%RSD	.63204	2.1272	.40361	.31452	.03138	.68848	.50929
#1	.24677	12.320	11.897	.24032	.50296	.50707	.49675
#2	.24458	11.955	11.829	.23925	.50318	.50216	.49319

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49855	.50313	.49106	.49410	.49063	.49434
SDev	.00360	.00302	.00301	.00371	.00265	.00368
%RSD	.72217	.59973	.61406	.75025	.53932	.74399

#1	.50110	.50526	.49319	.49672	.49251	.49694
#2	.49601	.50099	.48892	.49148	.48876	.49174

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39804	--	--	--	--	--	--
SDev	86.26703	--	--	--	--	--	--
%RSD	.2167295	--	--	--	--	--	--
#1	39743	--	--	--	--	--	--
#2	39865	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 10:05:45
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00982	.00253	.00062	.00010	.00004	.00166	-.00005
SDev	.00050	.00168	.00122	.00005	.00001	.00003	.00008

%RSD	5.0929	66.249	196.29	45.283	28.726	1.9847	170.21
#1	.00946	.00372	.00149	.00007	.00004	.00168	.00001
#2	.01017	.00135	-.00024	.00013	.00003	.00164	-.00010

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00909	.00020	.00021	-.00002	.01418	-.00015	.00010
SDev	.00200	.00026	.00049	.00013	.01202	.00001	.00115
%RSD	22.005	130.78	235.71	747.72	84.759	5.9148	1150.7
#1	.00768	.00038	-.00014	-.00011	.00568	-.00015	-.00071
#2	.01050	.00001	.00055	.00008	.02268	-.00016	.00091

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00215	-.01216	.00002	.00227	-.00007	-.09568	.01263
SDev	.00063	.00172	.00002	.00080	.00008	.00499	.00155
%RSD	29.081	14.146	77.417	35.497	105.13	5.2184	12.283
#1	-.00171	-.01094	.00004	.00283	-.00002	-.09215	.01373
#2	-.00260	-.01337	.00001	.00170	-.00013	-.09921	.01153

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.02191	-.01972	.00004	.00363	-.00090	.00017
SDev	.00002	.04214	.00029	.00000	.00058	.00054	.00013
%RSD	15.219	192.32	1.4846	.62259	15.926	60.780	76.942
#1	.00012	-.05171	-.01952	.00004	.00322	-.00128	.00026
#2	.00015	.00789	-.01993	.00004	.00403	-.00051	.00008

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	.00001	-.00102	.00066	.00029	-.00338
SDev	.00001	.00003	.00079	.00133	.00100	.00144

%RSD	1.2153	352.38	77.812	202.51	347.58	42.626
#1	.00072	-.00001	-.00157	-.00028	-.00042	-.00236
#2	.00070	.00003	-.00046	.00160	.00099	-.00439

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39672	--	--	--	--	--	--
SDev	91.21677	--	--	--	--	--	--
%RSD	.2299302	--	--	--	--	--	--
#1	39607	--	--	--	--	--	--
#2	39736	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-10-a Operator: DCL
Run Time: 10/01/12 10:09:36
Comment: TRACE 61E

♀

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	162.89	.00219	.05266	2.4637	.01355	.05223	.00043
SDev	.10	.00378	.00055	.0059	.00003	.00034	.00005
%RSD	.06013	172.56	1.0503	.24037	.21316	.65699	11.966
#1	162.96	-.00048	.05227	2.4679	.01353	.05248	.00040
#2	162.82	.00487	.05305	2.4595	.01357	.05199	.00047

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	805.22	.89763	.11101	.12957	195.15	.13239	.33211
SDev	.30	.00002	.00008	.00025	.05	.00011	.00150
%RSD	.03776	.00271	.06895	.19345	.02430	.08628	.45091
#1	805.01	.89765	.11106	.12939	195.18	.13247	.33105
#2	805.44	.89762	.11096	.12975	195.12	.13231	.33317

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01530	32.180	15.618	.01312	.13783	17.042	27.840
SDev	.00219	.017	.006	.00017	.00046	.006	.015
%RSD	14.287	.05276	.04037	1.3288	.33299	.03594	.05507
#1	-.01375	32.168	15.622	.01324	.13750	17.046	27.851
#2	-.01684	32.192	15.613	.01300	.13815	17.037	27.830

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00240	16.822	18.040	2.5516	-.05512	.03550	.31889
SDev	.00020	.078	.012	.0054	.00014	.00190	.00005
%RSD	8.2503	.46361	.06392	.21070	.24675	5.3609	.01544
#1	-.00226	16.767	18.032	2.5554	-.05521	.03685	.31893
#2	-.00254	16.877	18.048	2.5478	-.05502	.03416	.31886

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.51644	.38013	.32398	.33618	-.01447	-.01571
SDev	.00034	.00003	.00112	.00281	.00385	.00135
%RSD	.06671	.00767	.34638	.83508	26.590	8.6179
#1	.51668	.38015	.32477	.33420	-.01175	-.01475
#2	.51619	.38011	.32318	.33817	-.01720	-.01666

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42026	--	--	--	--	--	--
SDev	176.0696	--	--	--	--	--	--
%RSD	.4189490	--	--	--	--	--	--
#1	41902	--	--	--	--	--	--
#2	42151	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-11-a Operator: DCL
Run Time: 10/01/12 10:13:27
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	122.96	.00130	.04421	1.8618	.00644	.36039	.00568
SDev	.05	.00236	.00015	.0003	.00001	.00092	.00012
%RSD	.04403	181.46	.35062	.01759	.12208	.25441	2.1527
#1	123.00	-.00037	.04432	1.8621	.00643	.35975	.00576
#2	122.92	.00297	.04410	1.8616	.00644	.36104	.00559

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2035.9	3.4609	.05150	.45709	307.32	.10801	.45027
SDev	3.5	.0001	.00016	.00046	.05	.00009	.00179
%RSD	.17113	.00362	.31396	.10011	.01696	.08314	.39803
#1	2038.4	3.4608	.05162	.45741	307.28	.10808	.44900
#2	2033.5	3.4610	.05139	.45677	307.35	.10795	.45154

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03735	100.12	40.532	.06134	.17824	22.971	55.658
SDev	.00006	.00	.029	.00015	.00050	.002	.514
%RSD	.16174	.00345	.07253	.24281	.28144	.00922	.92404
#1	-.03730	100.13	40.552	.06144	.17860	22.973	55.295
#2	-.03739	100.12	40.511	.06123	.17789	22.970	56.022

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00112	36.927	42.221	11.481	-.10281	.05213	1.8376
SDev	.00009	.134	.033	.003	.00308	.00043	.0008
%RSD	7.8206	.36342	.07804	.02408	3.0006	.82676	.04267
#1	.00106	37.022	42.244	11.479	-.10063	.05243	1.8370
#2	.00118	36.832	42.197	11.483	-.10499	.05182	1.8381

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.80483	1.1236	.44590	.45246	-.03709	-.03747
SDev	.00030	.0001	.00253	.00395	.00672	.00327
%RSD	.03755	.00596	.56740	.87375	18.106	8.7182
#1	.80462	1.1235	.44769	.44966	-.03234	-.03978
#2	.80505	1.1236	.44411	.45525	-.04184	-.03516

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34964	--	--	--	--	--	--

SDev	132.2290	--	--	--	--	--	--
%RSD	.3781806	--	--	--	--	--	--
#1	34871	--	--	--	--	--	--
#2	35058	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-12-a Operator: DCL
Run Time: 10/01/12 10:17:17
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	223.75	.00257	.04059	2.1305	.01901	.03486	-.00109
SDev	.05	.00236	.00231	.0012	.00001	.00003	.00018
%RSD	.02071	91.931	5.6775	.05562	.05688	.09982	16.399
#1	223.78	.00090	.04222	2.1313	.01902	.03484	-.00096
#2	223.72	.00424	.03896	2.1296	.01900	.03489	-.00121

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.180	.23631	.07473	.10144	217.40	.09387	.19668
SDev	.040	.00015	.00028	.00012	.02	.00005	.00085
%RSD	.06398	.06275	.37114	.11730	.00772	.05061	.43016
#1	63.209	.23621	.07492	.10152	217.41	.09390	.19728
#2	63.152	.23642	.07453	.10136	217.39	.09383	.19609

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00573	28.248	.86160	.00872	.14437	13.116	24.657
SDev	.00177	.008	.00057	.00038	.00009	.013	.090
%RSD	30.810	.02885	.06673	4.3421	.06204	.09740	.36496
#1	-.00448	28.253	.86200	.00845	.14444	13.107	24.721
#2	-.00698	28.242	.86119	.00899	.14431	13.125	24.594

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00223	6.5405	6.7654	.32799	-.04383	.03432	.23370
SDev	.00009	.0443	.0030	.00028	.00068	.00069	.00012
%RSD	3.9000	.67799	.04485	.08644	1.5577	2.0203	.05013
#1	-.00217	6.5718	6.7632	.32779	-.04431	.03383	.23378

#2	-.00229	6.5091	6.7675	.32819	-.04335	.03481	.23361

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47701	.29255	.17786	.20610	-.01004	-.00358
SDev	.00034	.00017	.00030	.00112	.00058	.00294
%RSD	.07164	.05807	.16635	.54399	5.8143	82.231
#1	.47677	.29267	.17806	.20689	-.01045	-.00150
#2	.47726	.29243	.17765	.20531	-.00963	-.00565

♀

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45242	--	--	--	--	--	--
SDev	19.79899	--	--	--	--	--	--
%RSD	.0437624	--	--	--	--	--	--
#1	45228	--	--	--	--	--	--
#2	45256	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-13-a Operator: DCL
Run Time: 10/01/12 10:21:08
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	170.70	.00215	.04908	1.0816	.01667	.02529	-.00097
SDev	.37	.00123	.00137	.0008	.00000	.00028	.00002
%RSD	.21601	57.348	2.8000	.07590	.00043	1.1235	2.3365
#1	170.44	.00128	.04810	1.0811	.01667	.02549	-.00098
#2	170.96	.00302	.05005	1.0822	.01667	.02509	-.00095

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.483	.17287	.30721	.10660	184.34	.12189	.28394
SDev	.101	.00022	.00021	.00024	.28	.00011	.00029
%RSD	.15863	.12721	.07007	.22987	.15006	.08899	.10096
#1	63.412	.17272	.30705	.10642	184.14	.12182	.28414
#2	63.554	.17303	.30736	.10677	184.53	.12197	.28373

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00851	40.220	6.3809	.00267	.19381	11.751	19.351
SDev	.00276	.064	.0067	.00028	.00115	.006	.021
%RSD	32.393	.16010	.10457	10.688	.59179	.04709	.10769
#1	-.00656	40.175	6.3761	.00247	.19462	11.754	19.336
#2	-.01045	40.266	6.3856	.00287	.19300	11.747	19.366

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00568	11.567	11.696	.47013	-.04597	.02976	.19070
SDev	.00008	.111	.017	.00041	.00158	.00159	.00046
%RSD	1.3653	.96265	.14323	.08646	3.4275	5.3311	.23871

#1	-.00574	11.488	11.684	.46984	-.04709	.02864	.19038
#2	-.00563	11.646	11.708	.47041	-.04486	.03088	.19102

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41207	.27184	.26832	.29174	-.01219	-.00667
SDev	.00038	.00036	.00150	.00118	.00390	.00218
%RSD	.09272	.13045	.55903	.40446	31.980	32.770

♀

#1	.41180	.27159	.26726	.29258	-.00943	-.00512
#2	.41234	.27209	.26938	.29091	-.01494	-.00821

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	47297	--	--	--	--	--	--
SDev	82.02438	--	--	--	--	--	--
%RSD	.1734241	--	--	--	--	--	--
#1	47239	--	--	--	--	--	--
#2	47355	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-a-14-b Operator: DCL
Run Time: 10/01/12 10:25:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	171.74	.00470	.06437	1.2456	.01707	.02815	-.00153
SDev	.57	.00130	.00078	.0055	.00006	.00057	.00009
%RSD	.32977	27.575	1.2181	.44060	.32409	2.0283	5.7224
#1	171.34	.00379	.06493	1.2417	.01703	.02855	-.00146
#2	172.14	.00562	.06382	1.2495	.01711	.02775	-.00159

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	88.650	.24213	.14427	.10380	266.64	.08456	.38849
SDev	.359	.00083	.00024	.00087	1.72	.00034	.00150
%RSD	.40480	.34131	.16605	.84142	.64615	.40294	.38659
#1	88.396	.24155	.14410	.10319	265.42	.08432	.38742
#2	88.903	.24272	.14444	.10442	267.86	.08480	.38955

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00868	31.032	3.5377	.00625	.13014	7.8300	20.067
SDev	.00155	.135	.0151	.00004	.00026	.0170	.080
%RSD	17.908	.43604	.42626	.65590	.19933	.21698	.40040
#1	-.00978	30.936	3.5271	.00628	.12995	7.8180	20.010
#2	-.00758	31.128	3.5484	.00622	.13032	7.8420	20.123

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00290	8.9276	9.0069	.45480	-.05535	.03338	.19616
SDev	.00025	.0404	.0239	.00206	.00097	.00168	.00058

%RSD	8.7459	.45264	.26510	.45223	1.7574	5.0228	.29680
#1	-.00272	8.9562	8.9900	.45334	-.05603	.03220	.19575
#2	-.00308	8.8990	9.0238	.45625	-.05466	.03457	.19657

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	♀

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.63850	.23346	.37232	.39657	-.01386	-.00609	
SDev	.00348	.00115	.00067	.00192	.00304	.00081	
%RSD	.54507	.49081	.17961	.48376	21.944	13.318	
#1	.63604	.23265	.37185	.39521	-.01601	-.00667	
#2	.64096	.23427	.37280	.39792	-.01171	-.00552	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	44737	--	--	--	--	--	--
SDev	53.74012	--	--	--	--	--	--
%RSD	.1201245	--	--	--	--	--	--
#1	44775	--	--	--	--	--	--
#2	44699	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-61887-b-3-a Operator: DCL
Run Time: 10/01/12 10:29:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	127.23	.91645	.99868	2.4976	.47198	.98917	.44523
SDev	1.07	.00732	.00435	.0219	.00466	.00965	.00452
%RSD	.84049	.79829	.43551	.87842	.98633	.97583	1.0144
#1	126.47	.91128	.99561	2.4821	.46869	.98235	.44204
#2	127.99	.92162	1.0018	2.5132	.47527	.99600	.44843

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	439.05	1.1630	.92718	1.0868	100.46	1.1325	1.2287
SDev	4.33	.0108	.00920	.0096	1.05	.0097	.0102
%RSD	.98661	.92697	.99213	.88636	1.0405	.86089	.83376
#1	435.99	1.1553	.92068	1.0800	99.726	1.1256	1.2215
#2	442.11	1.1706	.93369	1.0936	101.20	1.1394	1.2359

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.90311	79.775	5.1436	.93152	.98527	22.790	30.470
SDev	.00535	.771	.0489	.00978	.01177	.199	.281
%RSD	.59286	.96594	.95066	1.0499	1.1946	.87215	.92347
#1	.89932	79.230	5.1090	.92460	.97695	22.650	30.271
#2	.90690	80.320	5.1781	.93844	.99359	22.931	30.669

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47679	13.467	14.846	1.1852	.88763	.96261	1.5272

SDev	.00495	.124	.120	.0110	.00479	.00984	.0139
%RSD	1.0375	.91797	.80915	.93210	.54006	1.0223	.91133

#1	.47329	13.380	14.761	1.1774	.88424	.95565	1.5174
#2	.48029	13.555	14.931	1.1931	.89102	.96957	1.5370

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1096	1.7040	1.2045	1.2408	.88508	.91213
SDev	.0103	.0163	.0043	.0132	.00141	.00733
%RSD	.92954	.95365	.35559	1.0659	.15912	.80330
#1	1.1023	1.6925	1.2015	1.2314	.88408	.90695
#2	1.1169	1.7155	1.2076	1.2501	.88607	.91731

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40328	--	--	--	--	--	--
SDev	276.4788	--	--	--	--	--	--
%RSD	.6855836	--	--	--	--	--	--
#1	40523	--	--	--	--	--	--
#2	40132	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-61887-b-3-a@5 Operator: DCL
Run Time: 10/01/12 10:33:03
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.861	.00556	.01229	.32395	.00373	.01438	.00038
SDev	.276	.00197	.00145	.00436	.00002	.00022	.00005
%RSD	1.1086	35.438	11.825	1.3462	.53056	1.5238	12.527
#1	24.666	.00695	.01331	.32087	.00375	.01422	.00041
#2	25.056	.00417	.01126	.32704	.00372	.01453	.00035

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.864	.05512	.00839	.02616	19.466	.01871	.07330
SDev	1.162	.00076	.00004	.00062	.230	.00026	.00048
%RSD	1.1749	1.3814	.52431	2.3620	1.1825	1.4009	.65362
#1	98.043	.05458	.00842	.02572	19.303	.01852	.07296
#2	99.685	.05566	.00836	.02660	19.629	.01889	.07364

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00146	14.932	.91622	.00495	.01971	2.0489	6.2059
SDev	.00162	.165	.01145	.00054	.00015	.0501	.0620
%RSD	111.01	1.1072	1.2494	10.827	.73433	2.4462	.99864
#1	-.00031	14.815	.90813	.00457	.01961	2.0134	6.1620
#2	-.00261	15.049	.92432	.00533	.01981	2.0843	6.2497

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00022	.63566	.72891	.14751	-.00511	.00646	.12800
SDev	.00032	.00743	.01409	.00208	.00196	.00011	.00170
%RSD	145.72	1.1696	1.9333	1.4067	38.355	1.7215	1.3304
#1	.00001	.64091	.71894	.14605	-.00650	.00639	.12679
#2	-.00045	.63040	.73887	.14898	-.00373	.00654	.12920

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04154	.16788	.06924	.07533	-.00169	-.00134
SDev	.00063	.00206	.00053	.00098	.00141	.00173
%RSD	1.5212	1.2261	.76057	1.3035	83.047	128.65
#1	.04109	.16642	.06961	.07464	-.00070	-.00012
#2	.04199	.16933	.06886	.07603	-.00269	-.00257

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40327	--	--	--	--	--	--
SDev	449.7199	--	--	--	--	--	--
%RSD	1.115183	--	--	--	--	--	--
#1	40645	--	--	--	--	--	--
#2	40009	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 10:37:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4477	.48969	.49205	.48404	.49117	.49015	.49448
SDev	.0068	.00238	.00292	.00004	.00034	.00222	.00018
%RSD	.27710	.48603	.59244	.00896	.06958	.45372	.03555
#1	2.4429	.48800	.48999	.48401	.49093	.48858	.49435
#2	2.4525	.49137	.49411	.48407	.49141	.49172	.49460

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.259	.49120	.49042	.48620	2.4765	.44557	.48582
SDev	.013	.00031	.00050	.00045	.0094	.00005	.00027
%RSD	.10583	.06319	.10138	.09204	.37932	.01001	.05632
#1	12.250	.49099	.49007	.48589	2.4699	.44560	.48563
#2	12.269	.49142	.49077	.48652	2.4831	.44554	.48601

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48246	4.8902	.48765	.50149	.50338	11.861	.94506
SDev	.00063	.0007	.00044	.00210	.00139	.013	.00488
%RSD	.13116	.01508	.09111	.41951	.27650	.11353	.51605
#1	.48291	4.8897	.48734	.50000	.50436	11.851	.94851

#2	.48201	4.8907	.48797	.50297	.50239	11.870	.94161
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24422	12.222	11.852	.23930	.50405	.50023	.49208
SDev	.00038	.078	.008	.00019	.00511	.00022	.00037
%RSD	.15354	.64175	.06967	.08147	1.0137	.04343	.07556
#1	.24396	12.167	11.846	.23916	.50043	.50008	.49182
#2	.24449	12.278	11.858	.23944	.50766	.50039	.49235
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49364	.50035	.47621	.49062	.46797	.48976	
SDev	.00027	.00023	.00134	.00108	.00627	.00219	
%RSD	.05388	.04592	.28199	.22051	1.3407	.44674	
#1	.49345	.50051	.47716	.48986	.47241	.48821	
#2	.49383	.50019	.47526	.49139	.46354	.49131	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39792	--	--	--	--	--	--
SDev	116.6726	--	--	--	--	--	--
%RSD	.2932099	--	--	--	--	--	--
#1	39874	--	--	--	--	--	--
#2	39709	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 10:40:57
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01406	.00326	.00064	.00007	-.00005	.00207	.00006
SDev	.00234	.00145	.00012	.00003	.00002	.00044	.00009
%RSD	16.635	44.436	18.370	47.250	49.898	21.489	143.96
#1	.01241	.00429	.00056	.00005	-.00003	.00238	-.00000
#2	.01572	.00224	.00072	.00010	-.00007	.00176	.00012
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00356	.00022	.00014	-.00093	.00251	-.00004	-.00089
SDev	.00084	.00032	.00018	.00002	.00320	.00001	.00062
%RSD	23.547	144.99	123.55	2.5712	127.62	12.646	69.423
#1	-.00415	.00044	.00002	-.00094	.00477	-.00004	-.00045
#2	-.00296	-.00001	.00027	-.00091	.00024	-.00005	-.00132
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00131	-.00552	.00002	.00265	.00004	-.06802	.01273

SDev	.00136	.00072	.00002	.00137	.00011	.00589	.00028
%RSD	103.41	13.089	79.370	51.546	250.12	8.6647	2.2201

#1	-.00227	-.00603	.00003	.00362	-.00003	-.06385	.01293
#2	-.00035	-.00501	.00001	.00169	.00012	-.07218	.01253

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	-.05010	-.01796	.00004	.00539	.00128	.00015
SDev	.00002	.05304	.00082	.00001	.00056	.00034	.00002
%RSD	339.98	105.86	4.5418	17.172	10.344	26.130	13.713

#1	-.00002	-.01260	-.01739	.00004	.00500	.00105	.00016
#2	.00001	-.08761	-.01854	.00003	.00579	.00152	.00013

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00005	-.00287	.00010	-.00096	-.00149
SDev	.00007	.00022	.00003	.00091	.00251	.00078
%RSD	19.662	461.12	.99826	902.76	261.85	52.353

#1	.00040	-.00011	-.00285	.00074	-.00273	-.00204
#2	.00030	.00020	-.00289	-.00054	.00082	-.00094

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39998	--	--	--	--	--	--
SDev	14.84924	--	--	--	--	--	--
%RSD	.0371254	--	--	--	--	--	--

#1	40008	--	--	--	--	--	--
#2	39987	--	--	--	--	--	--

♀

Analysis Report 10/01/12 10:51:18 AM page 1

Method: 20076010 Sample Name: mb 600-89798/1-a Operator: DCL
Run Time: 10/01/12 10:47:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02292	.00301	-.00229	.00038	-.00020	.00121	.00017
SDev	.00146	.00051	.00020	.00001	.00000	.00027	.00005
%RSD	6.3619	16.925	8.9090	3.7225	1.7862	22.039	28.960

#1	.02189	.00337	-.00244	.00038	-.00020	.00102	.00014
#2	.02395	.00265	-.00215	.00037	-.00019	.00140	.00020

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01117	.00063	-.00025	-.00066	.01976	-.00032	.00072
SDev	.00037	.00009	.00042	.00018	.00655	.00002	.00065
%RSD	3.2772	14.543	167.99	26.807	33.155	5.0091	89.940

#1	-.01091	.00070	.00005	-.00054	.02439	-.00031	.00026
#2	-.01142	.00057	-.00055	-.00079	.01513	-.00033	.00118

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	-.02652	.00021	.00081	.00040	-.15295	.01212
SDev	.00301	.00025	.00004	.00049	.00003	.00649	.00271
%RSD	2356.8	.94454	17.319	60.040	6.6338	4.2453	22.380

#1	-.00225	-.02634	.00023	.00047	.00041	-.14836	.01404
#2	.00200	-.02669	.00018	.00115	.00038	-.15755	.01020

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	.09793	-.02442	.00003	.00134	.03170	.00009
SDev	.00032	.08985	.00090	.00002	.00218	.00106	.00002
%RSD	69.624	91.750	3.6960	49.659	162.94	3.3372	25.601
#1	.00069	.16147	-.02378	.00002	-.00020	.03096	.00011
#2	.00023	.03440	-.02506	.00004	.00289	.03245	.00007

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.00168	.00015	.00101	-.00129	.00045
SDev	.00000	.00028	.00033	.00114	.00629	.00136
%RSD	1.1629	16.462	226.66	112.73	488.53	301.19
#1	.00037	.00148	.00038	.00020	-.00574	-.00051
#2	.00038	.00187	-.00009	.00182	.00316	.00142

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39882	--	--	--	--	--	--
SDev	146.3711	--	--	--	--	--	--
%RSD	.3670058	--	--	--	--	--	--

Analysis Report 10/01/12 10:51:18 AM page 2

#1	39779	--	--	--	--	--	--
#2	39986	--	--	--	--	--	--

Analysis Report 10/01/12 10:55:52 AM page 1

Method: 20076010 Sample Name: lcs 600-89798/2-a Operator: DCL
Run Time: 10/01/12 10:52:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	86.257	.66195	1.2780	2.4221	1.3927	.79538	.62153
SDev	.063	.00011	.0034	.0018	.0013	.00148	.00059
%RSD	.07255	.01687	.26595	.07290	.08994	.18589	.09482
#1	86.301	.66203	1.2756	2.4233	1.3936	.79434	.62195
#2	86.212	.66187	1.2804	2.4208	1.3918	.79643	.62112

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.606	.92268	1.2585	.98342	171.28	.08362	1.2678
SDev	.106	.00027	.0020	.00007	.27	.00003	.0000
%RSD	.12533	.02933	.16016	.00693	.15518	.03813	.00210
#1	84.681	.92287	1.2599	.98347	171.46	.08365	1.2678
#2	84.531	.92249	1.2570	.98338	171.09	.08360	1.2678

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7701	38.601	4.6627	.81227	1.1742	44.836	9.6822
SDev	.0015	.053	.0050	.00013	.0015	.081	.0110
%RSD	.08491	.13732	.10728	.01535	.12525	.18008	.11329
#1	1.7712	38.639	4.6662	.81236	1.1752	44.893	9.6899
#2	1.7691	38.564	4.6592	.81218	1.1731	44.778	9.6744

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41561	4.3700	6.4703	2.2229	1.4805	1.4913	3.9070
SDev	.00082	.0882	.0018	.0024	.0014	.0008	.0024
%RSD	.19806	2.0192	.02844	.10620	.09472	.05442	.06053
#1	.41619	4.4324	6.4690	2.2246	1.4795	1.4907	3.9086
#2	.41503	4.3076	6.4716	2.2213	1.4815	1.4919	3.9053

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.60258	2.0753	1.2291	1.2871	1.7047	1.8029
SDev	.00027	.0091	.0020	.0010	.0013	.0016
%RSD	.04419	.44081	.16369	.07504	.07744	.08843
#1	.60277	2.0818	1.2276	1.2878	1.7056	1.8040
#2	.60239	2.0688	1.2305	1.2865	1.7037	1.8017

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41902	--	--	--	--	--	--
SDev	79.19596	--	--	--	--	--	--
%RSD	.1890028	--	--	--	--	--	--

♀

#1	41846	--	--	--	--	--	--
#2	41958	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61851-b-1-a Operator: DCL
Run Time: 10/01/12 10:55:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	204.95	.02374	.14176	1.3977	.01429	.13348	.02159
SDev	.28	.00034	.00128	.0000	.00003	.00128	.00013
%RSD	.13778	1.4133	.90236	.00337	.20482	.96091	.59180
#1	205.15	.02350	.14266	1.3977	.01431	.13438	.02168
#2	204.75	.02397	.14086	1.3977	.01427	.13257	.02150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	710.55	.26550	.10165	.21653	274.85	.15380	5.4553
SDev	.96	.00039	.00010	.00022	.22	.00009	.0053
%RSD	.13533	.14627	.09908	.10181	.07886	.06117	.09766
#1	711.23	.26578	.10173	.21669	275.00	.15387	5.4591
#2	709.87	.26523	.10158	.21638	274.69	.15373	5.4516

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00823	39.077	5.6829	.00991	.26381	33.853	13.031
SDev	.00101	.057	.0050	.00079	.00060	.055	.014
%RSD	12.284	.14529	.08781	7.9790	.22538	.16257	.10751
#1	-.00752	39.117	5.6865	.01047	.26423	33.892	13.041
#2	-.00895	39.037	5.6794	.00935	.26339	33.814	13.021

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00318	47.616	47.620	3.7595	-.05127	.05451	.35987
SDev	.00035	.072	.085	.0010	.00084	.00085	.00165
%RSD	11.018	.15163	.17835	.02637	1.6405	1.5517	.45921
#1	-.00293	47.667	47.680	3.7602	-.05186	.05511	.36104
#2	-.00342	47.565	47.559	3.7588	-.05067	.05391	.35870

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.68019	.80664	5.3065	5.5297	-.01326	-.00572
SDev	.00033	.00129	.0039	.0099	.00445	.00374
%RSD	.04802	.15974	.07354	.17980	33.515	65.407
#1	.68042	.80573	5.3037	5.5368	-.01641	-.00307
#2	.67996	.80755	5.3092	5.5227	-.01012	-.00836

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 10:59:42 AM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42278	--	--	--	--	--	--
SDev	102.5305	--	--	--	--	--	--
%RSD	.2425121	--	--	--	--	--	--
#1	42206	--	--	--	--	--	--
#2	42351	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61851-b-2-a Operator: DCL
Run Time: 10/01/12 10:59:46
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.31	2.0336	1.7247	3.2112	.01116	.27475	4.4246
SDev	.85	.0081	.0053	.0123	.00003	.00118	.0154
%RSD	.45442	.39787	.30633	.38253	.27761	.42766	.34812
#1	186.91	2.0394	1.7284	3.2199	.01118	.27558	4.4355
#2	185.71	2.0279	1.7210	3.2025	.01114	.27392	4.4137

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	957.19	.32962	.08943	1.6058	341.40	.11645	k60.276
SDev	3.41	.00134	.00030	.0080	1.26	.00060	.240
%RSD	.35586	.40651	.33073	.49582	.37014	.51355	.39854

#1	959.60	.33057	.08963	1.6114	342.29	.11687	k60.446
#2	954.78	.32867	.08922	1.6002	340.50	.11602	k60.106

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00076	37.911	4.3051	.03749	.39505	30.471	13.928
SDev	.00195	.146	.0159	.00106	.00025	.179	.055
%RSD	256.11	.38417	.36955	2.8164	.06249	.58874	.39703
#1	-.00062	38.014	4.3164	.03823	.39523	30.597	13.967
#2	.00214	37.808	4.2939	.03674	.39488	30.344	13.889

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01084	68.285	66.320	3.7672	-.06233	.92069	.55842
SDev	.00021	.485	.319	.0145	.00346	.00200	.00281
%RSD	1.9573	.71091	.48083	.38490	5.5471	.21733	.50333
#1	.01099	68.628	66.545	3.7774	-.05989	.92210	.56041
#2	.01069	67.942	66.094	3.7569	-.06478	.91927	.55644

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74408	9.5347	S98.580	S41.124	.00343	-.00057
SDev	.00285	.0339	.380	.171	.00031	.00308
%RSD	.38319	.35577	.38497	.41480	8.9327	535.60
#1	.74610	9.5587	S98.848	S41.245	.00365	-.00275

#2	.74207	9.5107	S98.312	S41.003	.00322	.00160

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41950	--	--	--	--	--	--
SDev	163.3417	--	--	--	--	--	--
%RSD	.3893769	--	--	--	--	--	--
#1	41834	--	--	--	--	--	--
#2	42065	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61851-a-3-b Operator: DCL
Run Time: 10/01/12 11:03:36
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	216.11	.04613	.14128	1.2378	.01493	.12158	.06162
SDev	.24	.00099	.00224	.0008	.00002	.00056	.00003
%RSD	.10973	2.1450	1.5826	.06160	.10170	.46232	.05427
#1	215.94	.04683	.14286	1.2372	.01494	.12118	.06160
#2	216.28	.04543	.13970	1.2383	.01492	.12198	.06165

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	417.90	.25615	.10450	.20877	282.42	.18862	7.8067
SDev	.22	.00029	.00005	.00029	.26	.00038	.0226
%RSD	.05266	.11306	.04897	.14083	.09297	.19911	.28889

#1	417.74	.25594	.10446	.20856	282.23	.18835	7.8226
#2	418.06	.25635	.10453	.20898	282.61	.18889	7.7907
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00593	44.001	3.8306	.00540	.20704	28.972	10.899
SDev	.00006	.030	.0018	.00001	.00013	.082	.008
%RSD	1.0416	.06725	.04732	.20041	.06180	.28161	.07315
#1	-.00588	43.980	3.8293	.00540	.20695	28.915	10.894
#2	-.00597	44.022	3.8319	.00539	.20713	29.030	10.905
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00356	36.508	36.549	2.4158	-.05435	.10528	.33804
SDev	.00012	.050	.079	.0033	.00475	.00056	.00006
%RSD	3.3030	.13813	.21555	.13607	8.7364	.53617	.01684
#1	-.00347	36.473	36.493	2.4134	-.05099	.10568	.33800
#2	-.00364	36.544	36.605	2.4181	-.05770	.10488	.33808
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.64385	.71222	7.5010	7.9595	-.00759	-.00509	♀

SDev	.00002	.00055	.0065	.0371	.00248	.00133	
%RSD	.00302	.07744	.08634	.46570	32.617	26.142	
#1	.64384	.71183	7.4965	7.9857	-.00935	-.00415	
#2	.64386	.71261	7.5056	7.9332	-.00584	-.00603	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42308	--	--	--	--	--	--
SDev	50.20458	--	--	--	--	--	--
%RSD	.1186631	--	--	--	--	--	--
#1	42344	--	--	--	--	--	--
#2	42273	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-31-a Operator: DCL
Run Time: 10/01/12 11:07:28
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	139.88	.00334	.03323	.94110	.01424	.01399	-.00092
SDev	.12	.00047	.00091	.00041	.00002	.00029	.00001
%RSD	.08762	14.191	2.7353	.04364	.15485	2.0422	.74381
#1	139.97	.00368	.03387	.94081	.01423	.01419	-.00092
#2	139.79	.00301	.03259	.94139	.01426	.01378	-.00091
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.659	.19408	.11469	.08861	139.44	.07224	.16085
SDev	.033	.00002	.00014	.00006	.16	.00006	.00007

%RSD	.06963	.00771	.11856	.06846	.11664	.08493	.04475
#1	47.636	.19409	.11460	.08857	139.33	.07220	.16090
#2	47.683	.19407	.11479	.08865	139.56	.07229	.16080

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00419	19.775	1.7728	.00321	.08999	7.4176	9.2518
SDev	.00150	.011	.0013	.00022	.00030	.0288	.0039
%RSD	35.836	.05444	.07425	6.9344	.33016	.38793	.04228
#1	-.00525	19.768	1.7719	.00305	.08978	7.3973	9.2546
#2	-.00313	19.783	1.7738	.00337	.09020	7.4379	9.2491

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00361	5.8906	5.9173	.33138	-.02654	.03160	.12569
SDev	.00006	.0358	.0015	.00052	.00126	.00094	.00017
%RSD	1.7919	.60791	.02586	.15706	4.7475	2.9692	.13281
#1	-.00365	5.9160	5.9184	.33101	-.02565	.03226	.12557
#2	-.00356	5.8653	5.9162	.33174	-.02743	.03093	.12581

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38426	.22283	.14227	.17014	-.00675	-.00291
SDev	.00007	.00037	.00013	.00017	.00337	.00056
%RSD	.01954	.16529	.09298	.10234	50.036	19.377
#1	.38431	.22309	.14218	.17026	-.00913	-.00331
#2	.38421	.22257	.14237	.17002	-.00436	-.00251

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46061	--	--	--	--	--	--
SDev	55.15433	--	--	--	--	--	--
%RSD	.1197419	--	--	--	--	--	--
#1	46100	--	--	--	--	--	--
#2	46022	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-32-a Operator: DCL
Run Time: 10/01/12 11:11:19
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	208.74	.00726	.03248	.97790	.01728	.02319	-.00111
SDev	.45	.00159	.00436	.00380	.00018	.00135	.00021
%RSD	.21344	21.910	13.437	.38846	1.0494	5.8368	18.921
#1	208.43	.00838	.03557	.97522	.01741	.02415	-.00126
#2	209.06	.00613	.02940	.98059	.01715	.02223	-.00096

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	80.279	.20092	.09560	.10679	189.55	.11695	.23900

SDev	.435	.00158	.00070	.00048	1.13	.00076	.00152
%RSD	.54140	.78441	.73293	.44831	.59666	.64715	.63653
#1	80.586	.20204	.09610	.10713	190.35	.11642	.24008
#2	79.971	.19981	.09511	.10645	188.75	.11749	.23793

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00381	38.704	1.1444	.00275	.15383	13.496	9.2574
SDev	.00051	.207	.0037	.00001	.00100	.105	.0093
%RSD	13.349	.53405	.32725	.39190	.64991	.77804	.10053
#1	-.00417	38.850	1.1470	.00274	.15453	13.421	9.2640
#2	-.00345	38.558	1.1417	.00276	.15312	13.570	9.2508

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00364	13.311	13.559	.44933	-.03587	.03209	.13903
SDev	.00015	.078	.089	.00132	.00010	.00101	.00041

%RSD	4.0730	.58457	.65288	.29402	.27000	3.1601	.29322
#1	-.00353	13.256	13.497	.44840	-.03593	.03281	.13932
#2	-.00374	13.366	13.622	.45027	-.03580	.03137	.13874

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36029	.28759	.21256	.25222	-.00287	-.00428
SDev	.00148	.00060	.00362	.00047	.00183	.00015
%RSD	.41039	.20711	1.7010	.18797	63.642	3.5119
#1	.36133	.28801	.21512	.25256	-.00416	-.00417
#2	.35924	.28717	.21001	.25189	-.00158	-.00439

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	44216	--	--	--	--	--	--
SDev	461.7407	--	--	--	--	--	--
%RSD	1.044296	--	--	--	--	--	--
#1	44542	--	--	--	--	--	--
#2	43889	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-32-b du Operator: DCL
Run Time: 10/01/12 11:15:11
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	210.82	.00408	.03851	1.5016	.01786	.02366	-.00097
SDev	.20	.00190	.00276	.0019	.00005	.00030	.00026
%RSD	.09362	46.568	7.1696	.12433	.26427	1.2663	26.920
#1	210.68	.00274	.03656	1.5003	.01789	.02345	-.00079
#2	210.96	.00542	.04046	1.5029	.01782	.02387	-.00115

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	85.787	.21275	.11314	.22790	208.13	.10283	.25431
SDev	.113	.00067	.00002	.00038	.24	.00015	.00051
%RSD	.13127	.31482	.01823	.16701	.11386	.14246	.20055
#1	85.707	.21227	.11312	.22763	207.97	.10273	.25395
#2	85.866	.21322	.11315	.22817	208.30	.10294	.25467

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00712	33.320	.93191	.00335	.14314	10.588	9.9794
SDev	.00094	.048	.00085	.00021	.00036	.028	.0124
%RSD	13.167	.14495	.09121	6.3612	.24803	.26351	.12473
#1	-.00778	33.286	.93131	.00350	.14339	10.568	9.9706
#2	-.00645	33.354	.93251	.00320	.14289	10.608	9.9882

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00423	13.310	13.478	.46856	-.03786	.04214	.10772
SDev	.00034	.084	.027	.00076	.00143	.00034	.00017
%RSD	8.0009	.62861	.19712	.16155	3.7770	.80330	.15468
#1	-.00447	13.251	13.459	.46803	-.03887	.04238	.10760
#2	-.00399	13.369	13.497	.46910	-.03685	.04190	.10784

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48643	.26345	.22623	.26835	-.00887	-.00624
SDev	.00055	.00082	.00035	.00094	.00135	.00073
%RSD	.11222	.31283	.15631	.35097	15.237	11.694
#1	.48604	.26287	.22648	.26768	-.00983	-.00675
#2	.48681	.26403	.22598	.26902	-.00792	-.00572

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45326	--	--	--	--	--	--
SDev	134.3503	--	--	--	--	--	--
%RSD	.2964089	--	--	--	--	--	--
#1	45421	--	--	--	--	--	--
#2	45231	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-32-c ms Operator: DCL
Run Time: 10/01/12 11:19:02
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	261.77	.41365	.83519	2.4283	.44032	.60474	.41860
SDev	.22	.00152	.00304	.0005	.00052	.00004	.00066
%RSD	.08530	.36778	.36375	.01875	.11713	.00697	.15744
#1	261.93	.41258	.83304	2.4287	.43996	.60477	.41813
#2	261.62	.41473	.83734	2.4280	.44068	.60471	.41906

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	81.738	1.0698	.92688	.97769	216.55	.57629	1.0235
SDev	.115	.0010	.00040	.00248	.21	.00070	.0083
%RSD	.14052	.08974	.04365	.25393	.09832	.12191	.81540
#1	81.657	1.0691	.92716	.97944	216.40	.57678	1.0176
#2	81.819	1.0704	.92659	.97593	216.70	.57579	1.0294

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74581	44.791	1.5534	.76792	1.0068	22.425	9.7452
SDev	.00556	.052	.0012	.00199	.0009	.014	.0060
%RSD	.74500	.11526	.07703	.25950	.09000	.06251	.06141

#1	.74188	44.755	1.5526	.76651	1.0061	22.435	9.7409
#2	.74974	44.828	1.5543	.76933	1.0074	22.415	9.7494

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43878	23.127	23.239	.90345	.83216	.83851	.55246
SDev	.00134	.249	.044	.00023	.00756	.00234	.00010
%RSD	.30431	1.0780	.18928	.02564	.90865	.27871	.01831
#1	.43973	23.304	23.270	.90329	.82681	.84016	.55239
#2	.43784	22.951	23.208	.90362	.83750	.83686	.55253

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2341	1.1763	.96975	1.0504	.71541	.76101
SDev	.0001	.0008	.01301	.0190	.01225	.01446
%RSD	.00691	.06398	1.3419	1.8112	1.7129	1.9003
#1	1.2340	1.1757	.97895	1.0370	.72408	.75078
#2	1.2341	1.1768	.96055	1.0639	.70675	.77123

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	44859	--	--	--	--	--	--
SDev	94.75231	--	--	--	--	--	--
%RSD	.2112225	--	--	--	--	--	--
#1	44792	--	--	--	--	--	--
#2	44926	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-32-d msd Operator: DCL
Run Time: 10/01/12 11:22:53
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	267.42	.41176	.84532	2.9955	.44371	.61157	.42159
SDev	1.31	.00386	.00183	.0103	.00137	.00038	.00170
%RSD	.49099	.93802	.21636	.34449	.30983	.06273	.40328
#1	268.35	.40903	.84402	3.0028	.44468	.61184	.42279
#2	266.49	.41449	.84661	2.9882	.44274	.61130	.42039

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	80.364	1.0995	.91854	.98485	234.96	.57893	1.0460
SDev	.276	.0026	.00390	.00424	.76	.00286	.0005
%RSD	.34376	.23918	.42441	.43022	.32519	.49383	.04985
#1	80.559	1.1013	.92129	.98784	235.50	.58095	1.0463
#2	80.168	1.0976	.91578	.98185	234.42	.57690	1.0456

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74900	45.081	1.8267	.77646	1.0217	22.377	9.9239
SDev	.00159	.158	.0059	.00305	.0037	.122	.0347
%RSD	.21206	.35083	.32517	.39328	.36441	.54324	.34920
#1	.75012	45.193	1.8309	.77862	1.0243	22.463	9.9484
#2	.74788	44.969	1.8225	.77430	1.0191	22.291	9.8994

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44281	23.030	23.213	.91994	.83943	.83542	.56098
SDev	.00266	.284	.141	.00291	.00527	.00506	.00144
%RSD	.60092	1.2342	.60686	.31662	.62773	.60573	.25645
#1	.44469	23.231	23.313	.92200	.84315	.83900	.56200
#2	.44092	22.829	23.114	.91788	.83570	.83185	.55997

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2898	1.1920	.97782	1.0800	.70649	.77026
SDev	.0037	.0035	.00264	.0005	.01188	.00356
%RSD	.28986	.28997	.26962	.04965	1.6810	.46159
#1	1.2925	1.1944	.97968	1.0796	.71488	.76774
#2	1.2872	1.1896	.97596	1.0804	.69809	.77277

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45312	--	--	--	--	--	--
SDev	166.1701	--	--	--	--	--	--
%RSD	.3667283	--	--	--	--	--	--
#1	45194	--	--	--	--	--	--
#2	45429	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 11:26:44
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4388	.48789	.48957	.48641	.47664	.49096	.49127
SDev	.0163	.00424	.00474	.00198	.00278	.00302	.00280
%RSD	.66812	.87001	.96785	.40649	.58390	.61470	.57075
#1	2.4503	.49089	.49292	.48781	.47861	.49309	.49325

#2	2.4273	.48489	.48622	.48501	.47468	.48882	.48928

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.077	.47771	.47667	.47764	2.4457	.44862	.48022
SDev	.072	.00304	.00294	.00200	.0108	.00254	.00294
%RSD	.59755	.63566	.61748	.41875	.44247	.56683	.61300

♀

#1	12.128	.47985	.47875	.47906	2.4533	.45042	.48230
#2	12.026	.47556	.47459	.47623	2.4380	.44683	.47813

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48146	4.7673	.47882	.50149	.50339	11.885	.92632
SDev	.00534	.0262	.00290	.00195	.00304	.069	.01778
%RSD	1.1082	.55004	.60511	.38971	.60310	.58177	1.9196

#1	.48524	4.7858	.48087	.50288	.50554	11.934	.93889
#2	.47769	4.7487	.47677	.50011	.50124	11.836	.91375

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24281	12.111	11.900	.24061	.51113	.48585	.48736
SDev	.00143	.077	.070	.00103	.00174	.00118	.00259
%RSD	.58671	.63529	.58441	.42659	.34064	.24296	.53093

#1	.24382	12.166	11.949	.24134	.50989	.48669	.48919
#2	.24180	12.057	11.851	.23989	.51236	.48502	.48553

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48458	.49753	.44993	.49536	.45213	.49619
SDev	.00294	.00272	.00253	.00315	.00442	.00579
%RSD	.60707	.54778	.56287	.63576	.97844	1.1672

#1	.48666	.49946	.45172	.49759	.45525	.50028
#2	.48250	.49560	.44814	.49313	.44900	.49209

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39396	--	--	--	--	--	--
SDev	57.27565	--	--	--	--	--	--
%RSD	.1453826	--	--	--	--	--	--

#1	39356	--	--	--	--	--	--
#2	39437	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 11:30:34
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03472	.00106	.00059	.00003	-.00043	.00241	.00000
SDev	.00121	.00139	.00010	.00000	.00002	.00014	.00014
%RSD	3.4905	130.79	16.607	8.3843	5.2890	5.6919	12927.

#1	.03386	.00204	.00052	.00003	-.00045	.00250	.00010
#2	.03557	.00008	.00065	.00003	-.00041	.00231	-.00010

♀

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00382	.00012	.00005	-.00191	.01107	-.00006	.00218
SDev	.00002	.00009	.00033	.00007	.00091	.00000	.00042
%RSD	.48486	75.383	606.65	3.5374	8.2142	4.0525	19.487
#1	-.00380	.00019	-.00018	-.00186	.01172	-.00006	.00248
#2	-.00383	.00006	.00029	-.00196	.01043	-.00006	.00188

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00204	-.00981	.00001	.00227	-.00044	-.07830	.00340
SDev	.00137	.00005	.00003	.00028	.00060	.00280	.00690
%RSD	67.192	.45965	315.72	12.147	136.80	3.5725	202.67
#1	-.00107	-.00985	-.00001	.00246	-.00001	-.08028	.00828
#2	-.00302	-.00978	.00004	.00207	-.00086	-.07632	-.00147

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00000	.01697	-.01875	.00004	.00472	.00071	.00002
SDev	.00000	.01582	.00069	.00002	.00559	.00126	.00009
%RSD	3.0921	93.202	3.6675	55.008	118.32	178.54	418.95
#1	.00000	.02816	-.01827	.00002	.00867	-.00019	.00009
#2	.00000	.00579	-.01924	.00005	.00077	.00160	-.00004

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.00027	-.00001	.00327	-.00252	-.00181
SDev	.00017	.00009	.00028	.00077	.00276	.00068
%RSD	64.696	33.938	4881.0	23.690	109.22	37.822
#1	.00039	.00020	-.00020	.00381	-.00057	-.00132
#2	.00015	.00033	.00019	.00272	-.00447	-.00229

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39391	--	--	--	--	--	--
SDev	16.97056	--	--	--	--	--	--
%RSD	.0430823	--	--	--	--	--	--
#1	39379	--	--	--	--	--	--
#2	39403	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-33-a Operator: DCL
Run Time: 10/01/12 11:34:25
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	157.60	.00429	.02342	1.0209	.01666	.04862	-.00064

SDev	.00	.00161	.00087	.0017	.00003	.00013	.00002

%RSD	.00162	37.523	3.7218	.16325	.15683	.25658	2.3459
#1	157.60	.00315	.02281	1.0198	.01667	.04853	-.00063
#2	157.60	.00543	.02404	1.0221	.01664	.04871	-.00065

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.886	.17861	.04255	.10616	115.00	.09727	.19709
SDev	.057	.00032	.00007	.00004	.12	.00001	.00072
%RSD	.09037	.17927	.15962	.03588	.10647	.00674	.36741
#1	62.846	.17838	.04260	.10619	114.92	.09727	.19657
#2	62.926	.17883	.04250	.10614	115.09	.09728	.19760

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00300	31.652	1.4282	.00634	.09631	9.2860	8.8224
SDev	.00018	.028	.0013	.00080	.00007	.0066	.0097
%RSD	6.0124	.08820	.09253	12.676	.07626	.07089	.10946
#1	-.00288	31.632	1.4273	.00690	.09626	9.2906	8.8156
#2	-.00313	31.671	1.4292	.00577	.09637	9.2813	8.8292

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00358	13.106	13.204	.63312	-.01862	.02870	.16691
SDev	.00019	.021	.002	.00087	.00416	.00280	.00048
%RSD	5.2428	.16120	.01887	.13757	22.325	9.7561	.28520
#1	-.00344	13.120	13.206	.63250	-.01568	.03068	.16657
#2	-.00371	13.091	13.202	.63373	-.02156	.02672	.16724

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26598	.27381	.17255	.20936	-.00125	-.00388
SDev	.00026	.00016	.00019	.00118	.00231	.00088
%RSD	.09818	.05942	.11071	.56445	185.12	22.759
#1	.26580	.27370	.17268	.20852	.00039	-.00451
#2	.26617	.27393	.17241	.21019	-.00288	-.00326

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46686	--	--	--	--	--	--
SDev	3.535534	--	--	--	--	--	--
%RSD	.0075729	--	--	--	--	--	--
#1	46684	--	--	--	--	--	--
#2	46689	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-34-a Operator: DCL
Run Time: 10/01/12 11:38:16
Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	169.48	.00286	.03382	2.0389	.01641	.02027	-.00092
SDev	.49	.00111	.00031	.0050	.00002	.00005	.00008
%RSD	.29175	38.914	.91717	.24759	.08995	.24847	9.0845
#1	169.13	.00365	.03403	2.0353	.01642	.02023	-.00086
#2	169.83	.00208	.03360	2.0424	.01640	.02030	-.00098

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	61.884	.17842	.36279	.13542	159.72	.11515	.23284
SDev	.094	.00049	.00025	.00082	.29	.00036	.00051
%RSD	.15210	.27536	.06954	.60234	.18040	.30864	.21958
#1	61.817	.17808	.36261	.13485	159.51	.11489	.23247
#2	61.951	.17877	.36297	.13600	159.92	.11540	.23320

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01025	39.019	13.109	.00550	.26714	10.190	9.6860
SDev	.00133	.068	.016	.00027	.00089	.014	.0326
%RSD	12.953	.17499	.12576	4.8445	.33472	.14063	.33675
#1	-.01119	38.971	13.098	.00531	.26650	10.180	9.6629
#2	-.00932	39.068	13.121	.00569	.26777	10.200	9.7090

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00440	12.967	13.115	.57104	-.03657	.02794	.12103
SDev	.00008	.047	.047	.00139	.00148	.00040	.00019
%RSD	1.8077	.36615	.35728	.24411	4.0502	1.4163	.15898
#1	-.00446	12.934	13.081	.57005	-.03552	.02822	.12089
#2	-.00434	13.001	13.148	.57202	-.03761	.02766	.12116

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.35215	.26091	.20589	.24631	-.01341	-.00868
SDev	.00049	.00068	.00107	.00130	.00473	.00436
%RSD	.13901	.26156	.51879	.52819	35.244	50.203
#1	.35180	.26043	.20664	.24539	-.01007	-.01176
#2	.35250	.26140	.20513	.24723	-.01675	-.00560

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	47037	--	--	--	--	--	--
SDev	52.32590	--	--	--	--	--	--
%RSD	.1112441	--	--	--	--	--	--
#1	47074	--	--	--	--	--	--
#2	47000	--	--	--	--	--	--

Analysis Report 10/01/12 11:42:03 AM page 15

Method: 20076010 Sample Name: 600-61887-b-35-a Operator: DCL

Run Time: 10/01/12 11:42:06
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	163.95	.00359	.04361	1.9859	.01191	.05011	.00042
SDev	.06	.00238	.00006	.0007	.00001	.00016	.00008
%RSD	.03425	66.319	.13044	.03596	.11223	.31519	17.981
#1	163.99	.00191	.04365	1.9854	.01190	.04999	.00048
#2	163.91	.00528	.04357	1.9864	.01192	.05022	.00037

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	338.43	.41930	.07334	.15398	196.47	.11946	.28877
SDev	.49	.00011	.00020	.00024	.28	.00002	.00066
%RSD	.14477	.02721	.28006	.15353	.14178	.01607	.22901
#1	338.08	.41921	.07348	.15381	196.27	.11945	.28924
#2	338.78	.41938	.07319	.15414	196.67	.11947	.28831

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00756	36.459	4.7748	.01465	.13864	14.162	11.321
SDev	.00217	.028	.0047	.00053	.00057	.021	.007
%RSD	28.718	.07712	.09835	3.5864	.41388	.14815	.06056
#1	-.00602	36.439	4.7715	.01502	.13905	14.147	11.316
#2	-.00909	36.479	4.7781	.01428	.13824	14.177	11.325

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00248	8.0793	8.6149	.98259	-.03497	.03790	.30190
SDev	.00009	.0374	.0057	.00086	.00095	.00144	.00021
%RSD	3.6511	.46331	.06586	.08797	2.7156	3.8032	.07031
#1	-.00254	8.0528	8.6189	.98198	-.03430	.03892	.30175
#2	-.00241	8.1058	8.6109	.98320	-.03564	.03688	.30205

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40015	.54118	.25799	.30417	-.00833	-.00717
SDev	.00052	.00105	.00108	.00045	.00057	.00297
%RSD	.13110	.19356	.41889	.14849	6.8398	41.435
#1	.39978	.54044	.25876	.30449	-.00793	-.00507
#2	.40052	.54192	.25723	.30385	-.00874	-.00927

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42182	--	--	--	--	--	--

SDev	61.51829	--	--	--	--	--	--
%RSD	.1458384	--	--	--	--	--	--
#1	42226	--	--	--	--	--	--
#2	42139	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-37-a Operator: DCL
Run Time: 10/01/12 11:45:57
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	160.83	.00572	.06556	2.4577	.01233	.06100	.00045
SDev	2.40	.00230	.00026	.0336	.00008	.00066	.00018
%RSD	1.4937	40.249	.39146	1.3683	.68232	1.0791	40.139
#1	162.53	.00410	.06574	2.4815	.01239	.06147	.00058
#2	159.13	.00735	.06538	2.4340	.01227	.06054	.00032

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	497.35	.26952	.07759	.15063	203.88	.13060	.30779
SDev	5.18	.00343	.00095	.00266	2.40	.00195	.00256
%RSD	1.0421	1.2740	1.2247	1.7695	1.1781	1.4906	.83234
#1	501.02	.27194	.07826	.15251	205.58	.13198	.30960
#2	493.69	.26709	.07691	.14874	202.19	.12923	.30598

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01316	41.304	4.6109	.01224	.14744	18.412	11.104
SDev	.00411	.481	.0549	.00118	.00082	.255	.160
%RSD	31.218	1.1650	1.1903	9.6638	.55604	1.3849	1.4448
#1	-.01606	41.645	4.6497	.01307	.14802	18.592	11.218
#2	-.01025	40.964	4.5721	.01140	.14686	18.232	10.991

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	7.5655	8.2962	1.3810	-.03574	.04216	.30852
SDev	.00008	.0682	.1260	.0192	.00308	.00012	.00398
%RSD	4.6023	.90162	1.5185	1.3867	8.6036	.28152	1.2891
#1	-.00169	7.6137	8.3852	1.3945	-.03357	.04208	.31133
#2	-.00180	7.5172	8.2071	1.3674	-.03792	.04225	.30570

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42603	.62124	.27782	.32277	-.01147	-.01400
SDev	.00564	.00706	.00028	.00370	.00436	.00398
%RSD	1.3226	1.1365	.10238	1.1465	37.984	28.447
#1	.43001	.62624	.27802	.32539	-.01455	-.01682
#2	.42205	.61625	.27762	.32016	-.00839	-.01119

♀
Analysis Report 10/01/12 11:49:45 AM page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40727	--	--	--	--	--	--
SDev	347.8965	--	--	--	--	--	--
%RSD	.8542160	--	--	--	--	--	--

#1	40481	--	--	--	--	--	--
#2	40973	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-38-a Operator: DCL
Run Time: 10/01/12 11:49:48
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	75.209	.00497	.06131	.99763	.00473	.04415	.00276
SDev	.037	.00268	.00176	.00021	.00001	.00006	.00006
%RSD	.04854	53.968	2.8701	.02147	.21175	.13890	1.9758
#1	75.235	.00307	.06007	.99748	.00473	.04411	.00272
#2	75.183	.00686	.06256	.99778	.00472	.04420	.00280

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	227.14	.11933	.04372	.10457	92.073	.07457	.34166
SDev	.29	.00022	.00021	.00012	.149	.00007	.00224
%RSD	.12954	.18142	.48238	.11059	.16183	.10010	.65585
#1	226.93	.11917	.04357	.10449	91.968	.07451	.34007
#2	227.35	.11948	.04387	.10465	92.178	.07462	.34324

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00679	25.533	3.1642	.00568	.09549	13.910	10.558
SDev	.00334	.013	.0030	.00045	.00006	.026	.008
%RSD	49.170	.05059	.09634	7.8880	.05855	.18396	.08007
#1	-.00443	25.524	3.1621	.00537	.09553	13.892	10.564
#2	-.00915	25.542	3.1664	.00600	.09545	13.929	10.552

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00063	2.4292	2.6810	.34350	-.01535	.04000	.31700
SDev	.00038	.1217	.0029	.00039	.00162	.00188	.00065
%RSD	60.470	5.0113	.10868	.11444	10.582	4.7031	.20649
#1	-.00089	2.3431	2.6789	.34322	-.01650	.03867	.31653
#2	-.00036	2.5153	2.6830	.34378	-.01420	.04133	.31746

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17765	.50840	.31001	.35748	-.00829	-.00604
SDev	.00012	.00067	.00126	.00273	.00869	.00066
%RSD	.06867	.13133	.40765	.76346	104.85	10.945

#1	.17756	.50793	.30911	.35555	-.00214	-.00557
#2	.17774	.50887	.31090	.35941	-.01444	-.00650

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39832	--	--	--	--	--	--
SDev	102.5305	--	--	--	--	--	--
%RSD	.2574106	--	--	--	--	--	--

#1	39904	--	--	--	--	--	--
#2	39759	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-39-a Operator: DCL
Run Time: 10/01/12 11:53:41
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.415	.00063	.03518	.77725	.00283	.06990	.00049
SDev	.060	.00088	.00096	.00036	.00001	.00010	.00008
%RSD	.11805	139.29	2.7271	.04676	.31747	.13980	16.027
#1	50.457	.00001	.03450	.77699	.00283	.06983	.00044
#2	50.373	.00125	.03585	.77751	.00282	.06997	.00055

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	385.73	.65105	.03401	.14467	96.542	.04888	.10086
SDev	.29	.00107	.00017	.00004	.064	.00003	.00043
%RSD	.07452	.16466	.51508	.02479	.06667	.05927	.42656
#1	385.93	.65181	.03389	.14470	96.587	.04886	.10116
#2	385.53	.65030	.03414	.14464	96.496	.04890	.10055

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00725	25.691	7.2401	.01555	.08607	9.5809	9.9997
SDev	.00146	.030	.0055	.00092	.00009	.0173	.0070
%RSD	20.159	.11707	.07574	5.8893	.09903	.18085	.06990
#1	-.00621	25.712	7.2440	.01620	.08613	9.5686	9.9948
#2	-.00828	25.670	7.2363	.01491	.08601	9.5931	10.005

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00057	1.7508	2.0998	.25070	-.01953	.03559	.41347
SDev	.00006	.1320	.0031	.00026	.00395	.00117	.00011
%RSD	10.956	7.5421	.14676	.10463	20.206	3.2875	.02620
#1	-.00061	1.8442	2.0976	.25051	-.01674	.03642	.41355
#2	-.00052	1.6574	2.1019	.25088	-.02232	.03477	.41340

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	♀

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19427	.43731	.09011	.10623	-.00844	-.00665
SDev	.00011	.00055	.00034	.00081	.00254	.00092
%RSD	.05632	.12659	.37615	.76703	30.041	13.885
#1	.19434	.43770	.08987	.10681	-.00665	-.00600
#2	.19419	.43691	.09035	.10565	-.01023	-.00730

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38692	--	--	--	--	--	--
SDev	8.485281	--	--	--	--	--	--

%RSD	.0219303	--	--	--	--	--	--
#1	38686	--	--	--	--	--	--
#2	38698	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-40-a Operator: DCL
Run Time: 10/01/12 11:57:40
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	203.87	.00260	.05192	3.3954	.01605	.01698	-.00170
SDev	.53	.00133	.00015	.0068	.00005	.00048	.00008
%RSD	.26174	50.861	.28728	.19960	.30602	2.8025	4.5058
#1	204.25	.00167	.05181	3.4002	.01609	.01731	-.00165
#2	203.49	.00354	.05202	3.3906	.01602	.01664	-.00176

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	107.82	.21458	.06794	.11326	219.03	.09475	.15739
SDev	.18	.00047	.00018	.00053	.36	.00026	.00024
%RSD	.17073	.22011	.26695	.46470	.16360	.27155	.14985
#1	107.96	.21492	.06807	.11363	219.28	.09494	.15722
#2	107.69	.21425	.06781	.11289	218.78	.09457	.15755

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00899	30.634	1.0143	.00365	.12573	11.083	9.9262
SDev	.00185	.068	.0022	.00006	.00050	.051	.0236
%RSD	20.591	.22210	.21898	1.7944	.39472	.45845	.23805
#1	-.01030	30.683	1.0159	.00369	.12609	11.119	9.9429
#2	-.00768	30.586	1.0127	.00360	.12538	11.047	9.9094

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00313	9.5791	9.8650	.32711	-.03072	.03068	.13630
SDev	.00001	.0394	.0339	.00070	.00159	.00027	.00006
%RSD	.47271	.41117	.34368	.21496	5.1906	.87749	.04034

♀

#1	-.00312	9.6070	9.8890	.32761	-.02959	.03048	.13633
#2	-.00314	9.5513	9.8410	.32661	-.03185	.03087	.13626

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45750	.28504	.13213	.17002	-.01006	-.00845
SDev	.00083	.00060	.00035	.00053	.00113	.00221
%RSD	.18127	.20861	.26218	.30994	11.192	26.187
#1	.45809	.28546	.13237	.16965	-.01086	-.01002
#2	.45692	.28462	.13188	.17039	-.00927	-.00689

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45857	--	--	--	--	--	--

SDev	33.94112	--	--	--	--	--	--
%RSD	.0740152	--	--	--	--	--	--
#1	45833	--	--	--	--	--	--
#2	45881	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-41-a Operator: DCL
Run Time: 10/01/12 12:01:37
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	170.05	.00499	.02819	2.9851	.01312	.02920	-.00124
SDev	.13	.00016	.00057	.0012	.00000	.00005	.00019
%RSD	.07927	3.1925	2.0377	.04111	.01248	.17396	15.474
#1	170.15	.00510	.02860	2.9860	.01312	.02924	-.00110
#2	169.96	.00488	.02778	2.9843	.01312	.02917	-.00137

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.214	.22859	.06301	.09360	179.13	.10086	.17285
SDev	.033	.00085	.00040	.00052	.07	.00018	.00115
%RSD	.06428	.37032	.64220	.55916	.03837	.18252	.66829
#1	51.237	.22919	.06329	.09397	179.18	.10099	.17367
#2	51.190	.22800	.06272	.09323	179.08	.10073	.17203

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00799	32.507	1.1414	.00437	.11124	9.5045	8.6915
SDev	.00419	.034	.0012	.00041	.00005	.0416	.0116
%RSD	52.470	.10586	.10910	9.3310	.04230	.43790	.13356
#1	-.00502	32.532	1.1422	.00409	.11120	9.5339	8.6997
#2	-.01095	32.483	1.1405	.00466	.11127	9.4751	8.6833

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00238	10.003	10.196	.55509	-.02321	.02941	.15001
SDev	.00007	.056	.019	.00056	.00147	.00042	.00035
%RSD	3.1218	.55843	.18766	.10079	6.3169	1.4228	.23610
#1	-.00244	10.043	10.209	.55548	-.02425	.02912	.15026
#2	-.00233	9.9637	10.182	.55469	-.02217	.02971	.14976

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.35838	.26621	.14870	.18492	-.00968	-.00714
SDev	.00108	.00026	.00110	.00118	.00414	.00421
%RSD	.30164	.09777	.74135	.63892	42.827	59.002
#1	.35915	.26603	.14948	.18576	-.00675	-.00416
#2	.35762	.26640	.14793	.18409	-.01261	-.01012

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	43868	--	--	--	--	--	--
SDev	26.16295	--	--	--	--	--	--
%RSD	.0596409	--	--	--	--	--	--
#1	43849	--	--	--	--	--	--
#2	43886	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-42-a Operator: DCL
Run Time: 10/01/12 12:05:35
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	202.32	.00447	.06605	3.2577	.01846	.02890	-.00262
SDev	5.89	.00368	.00538	.0961	.00044	.00079	.00007
%RSD	2.9128	82.360	8.1431	2.9501	2.3693	2.7417	2.5369
#1	206.48	.00708	.06986	3.3256	.01877	.02946	-.00257
#2	198.15	.00187	.06225	3.1897	.01815	.02834	-.00267

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	71.744	.22857	1.1324	.13367	312.16	.14176	.96589
SDev	2.111	.00688	.0348	.00471	9.34	.00408	.02277
%RSD	2.9428	3.0090	3.0732	3.5262	2.9906	2.8789	2.3573
#1	73.237	.23344	1.1570	.13700	318.76	.14464	.98199
#2	70.251	.22371	1.1078	.13033	305.56	.13887	.94979

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01676	37.343	11.801	.00605	.19102	17.439	8.8781
SDev	.00080	1.126	.349	.00059	.00630	.536	.2616
%RSD	4.7974	3.0152	2.9555	9.7591	3.2991	3.0740	2.9466
#1	-.01619	38.139	12.047	.00646	.19548	17.818	9.0631

#2	-.01733	36.547	11.554	.00563	.18656	17.060	8.6931

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01023	6.7192	6.9716	.56359	-.06333	.02917	.15979
SDev	.00002	.2103	.1981	.01710	.00223	.00294	.00489
%RSD	.20547	3.1305	2.8411	3.0342	3.5287	10.069	3.0603
#1	-.01024	6.8679	7.1116	.57569	-.06174	.03124	.16325
#2	-.01021	6.5705	6.8315	.55150	-.06491	.02709	.15633

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55703	.29887	.86607	1.0158	-.02221	-.01403
SDev	.01666	.00914	.02402	.0221	.00004	.00118
%RSD	2.9903	3.0574	2.7735	2.1798	.19970	8.4374
#1	.56881	.30533	.88305	1.0315	-.02218	-.01319
#2	.54526	.29241	.84908	1.0001	-.02225	-.01487

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Wavlen	371.030	--	--	--	--	--	--
Avge	46178	--	--	--	--	--	--
SDev	1078.338	--	--	--	--	--	--
%RSD	2.335151	--	--	--	--	--	--
#1	45416	--	--	--	--	--	--
#2	46941	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-43-a Operator: DCL
Run Time: 10/01/12 12:09:33
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	218.61	.00516	.04502	3.0991	.01299	.07395	.00197
SDev	.14	.00089	.00017	.0037	.00001	.00053	.00003
%RSD	.06297	17.335	.38871	.12023	.09047	.72114	1.5897
#1	218.52	.00579	.04489	3.0964	.01300	.07432	.00199
#2	218.71	.00453	.04514	3.1017	.01299	.07357	.00194

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	809.93	.28166	.06720	.16864	210.64	.22966	.24822
SDev	1.70	.00058	.00019	.00032	.42	.00029	.00079
%RSD	.20977	.20742	.28783	.19212	.20171	.12567	.31936
#1	808.72	.28125	.06707	.16841	210.34	.22946	.24766
#2	811.13	.28207	.06734	.16887	210.94	.22987	.24878

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01226	80.891	3.8132	.00451	.18742	31.867	11.864

SDev	.00096	.126	.0057	.00045	.00034	.024	.014
%RSD	7.8645	.15533	.15023	9.9055	.18370	.07479	.12216
#1	-.01294	80.803	3.8091	.00482	.18718	31.850	11.854
#2	-.01158	80.980	3.8172	.00419	.18766	31.884	11.874

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00267	4.3684	5.0620	1.3547	-.03312	.03267	.28915
SDev	.00018	.0626	.0039	.0010	.00200	.00085	.00039
%RSD	6.7123	1.4331	.07695	.07411	6.0416	2.5863	.13478
#1	-.00254	4.3241	5.0592	1.3540	-.03453	.03326	.28888
#2	-.00280	4.4127	5.0647	1.3554	-.03170	.03207	.28943

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.35703	.65050	.21421	.26523	-.00992	-.01343
SDev	.00059	.00162	.00330	.00046	.00293	.00291
%RSD	.16510	.24947	1.5396	.17338	29.557	21.688
#1	.35661	.64935	.21188	.26556	-.00785	-.01549
#2	.35745	.65165	.21654	.26491	-.01199	-.01137

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41244	--	--	--	--	--	--
SDev	74.95332	--	--	--	--	--	--
%RSD	.1817314	--	--	--	--	--	--
#1	41297	--	--	--	--	--	--
#2	41191	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 12:13:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4187	.49210	.49337	.49043	.46795	.49396	.50211
SDev	.0066	.00067	.00207	.00099	.00156	.00169	.00149
%RSD	.27115	.13518	.41871	.20260	.33248	.34195	.29627
#1	2.4234	.49163	.49483	.49113	.46905	.49515	.50316
#2	2.4141	.49257	.49191	.48973	.46685	.49276	.50106

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.134	.47342	.47187	.46881	2.4725	.45221	.48218
SDev	.048	.00172	.00197	.00215	.0084	.00199	.00142
%RSD	.39283	.36390	.41734	.45949	.34167	.43967	.29431
#1	12.168	.47464	.47327	.47033	2.4785	.45361	.48318

#2	12.101	.47221	.47048	.46729	2.4665	.45080	.48118

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47990	4.7575	.47629	.50187	.51236	12.029	.91086
SDev	.00150	.0226	.00168	.00184	.00197	.067	.01046
%RSD	.31292	.47430	.35235	.36629	.38377	.55364	1.1488
#1	.48096	4.7735	.47748	.50057	.51375	12.076	.91826
#2	.47884	4.7416	.47511	.50317	.51097	11.982	.90346

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24277	12.189	11.955	.24333	.52199	.48485	.48662
SDev	.00143	.148	.067	.00057	.00249	.00358	.00167
%RSD	.58950	1.2175	.56298	.23432	.47805	.73906	.34330
#1	.24378	12.294	12.003	.24373	.52023	.48739	.48780
#2	.24175	12.084	11.908	.24292	.52376	.48232	.48544

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48123	.50455	.43545	.50555	.43955	.50013
SDev	.00163	.00248	.00019	.00222	.00247	.00102
%RSD	.33914	.49055	.04277	.43948	.56136	.20375
#1	.48239	.50630	.43532	.50712	.44129	.50085
#2	.48008	.50280	.43558	.50398	.43780	.49941

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39206	--	--	--	--	--	--
SDev	93.33810	--	--	--	--	--	--
%RSD	.2380710	--	--	--	--	--	--
#1	39140	--	--	--	--	--	--
#2	39272	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 12:17:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05924	.00418	-.00064	.00018	-.00079	.00141	.00016
SDev	.00160	.00085	.00012	.00007	.00008	.00107	.00018
%RSD	2.6916	20.348	19.113	37.191	10.062	76.207	112.43
#1	.05811	.00478	-.00056	.00014	-.00085	.00217	.00003
#2	.06037	.00358	-.00073	.00023	-.00074	.00065	.00028

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00432	.00038	.00018	-.00277	.00423	.00008	.00049
SDev	.00587	.00015	.00005	.00024	.00474	.00005	.00065
%RSD	135.90	40.136	28.399	8.7468	111.98	61.537	133.46
#1	-.00847	.00027	.00022	-.00295	.00758	.00005	.00003
#2	-.00017	.00049	.00015	-.00260	.00088	.00012	.00095

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00154	.00013	.00010	.00172	.00006	-.04563	-.00077
SDev	.00050	.00246	.00016	.00049	.00026	.00073	.00231
%RSD	32.696	1965.1	161.84	28.564	406.91	1.6048	300.05
#1	-.00189	-.00162	-.00001	.00207	.00024	-.04615	.00086
#2	-.00118	.00187	.00021	.00137	-.00012	-.04511	-.00241

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	-.04011	-.01487	.00006	.00273	.00030	.00017
SDev	.00034	.04139	.00184	.00004	.00010	.00047	.00010
%RSD	164.06	103.18	12.373	71.598	3.7557	156.12	62.874
#1	.00003	-.06938	-.01617	.00003	.00280	.00064	.00009
#2	-.00045	-.01085	-.01357	.00009	.00265	-.00003	.00024

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00028	.00043	.00051	.00095	-.00278
SDev	.00006	.00028	.00087	.00141	.00340	.00095
%RSD	8.1914	100.75	199.81	273.81	359.39	34.005
#1	.00079	.00008	.00105	-.00048	-.00146	-.00211

#2	.00070	.00048	-.00018	.00151	.00335	-.00345

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39471	--	--	--	--	--	--
SDev	43.84062	--	--	--	--	--	--
%RSD	.1110705	--	--	--	--	--	--
#1	39502	--	--	--	--	--	--
#2	39440	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62037-a-1-c@10 Operator: DCL
Run Time: 10/01/12 12:21:29
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.7545	.00210	.03405	.17107	-.00086	.00815	.00268
SDev	.0051	.00017	.00013	.00012	.00001	.00083	.00014
%RSD	.08807	8.2913	.38026	.07176	.61033	10.158	5.0175

♀

#1	5.7509	.00198	.03414	.17116	-.00086	.00874	.00259
#2	5.7580	.00223	.03396	.17098	-.00087	.00757	.00278

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.382	.11364	.01028	.10267	118.04	.00234	.20429
SDev	.005	.00034	.00026	.00038	.06	.00003	.00069
%RSD	.03832	.29546	2.5075	.37476	.04926	1.4487	.33663
#1	12.385	.11388	.01009	.10294	118.08	.00231	.20477
#2	12.379	.11340	.01046	.10240	118.00	.00236	.20380

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00452	2.3803	1.0482	.01008	1.7338	.36152	.76317
SDev	.00070	.0011	.0007	.00070	.0014	.01440	.00324
%RSD	15.369	.04639	.06409	6.9798	.08152	3.9837	.42495
#1	-.00403	2.3811	1.0487	.01058	1.7328	.35134	.76547
#2	-.00502	2.3795	1.0477	.00958	1.7348	.37170	.76088

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	5.2122	5.0149	.05725	-.01353	.00734	.03178
SDev	.00020	.0292	.0000	.00008	.00091	.00060	.00000
%RSD	78.912	.56105	.00077	.14402	6.7452	8.1443	.00860
#1	-.00011	5.2329	5.0149	.05730	-.01289	.00776	.03178
#2	-.00040	5.1916	5.0149	.05719	-.01418	.00692	.03178

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03264	.44148	.18499	.21394	-.00163	-.00597
SDev	.00026	.00026	.00129	.00168	.00117	.00163
%RSD	.78012	.05808	.69756	.78377	71.853	27.262

#1	.03282	.44166	.18408	.21512	-.00246	-.00482
#2	.03246	.44130	.18590	.21275	-.00080	-.00712

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39333	--	--	--	--	--	--
SDev	115.9655	--	--	--	--	--	--
%RSD	.2948301	--	--	--	--	--	--
#1	39415	--	--	--	--	--	--
#2	39251	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61940-a-1-a Operator: DCL
Run Time: 10/01/12 12:25:26
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	43.445	-.00082	.10489	6.1028	.00135	.20649	-.00097
SDev	.018	.00092	.00049	.0003	.00001	.00040	.00006
%RSD	.04246	112.39	.47183	.00459	.89086	.19215	6.0075
#1	43.458	-.00017	.10524	6.1026	.00136	.20621	-.00093
#2	43.432	-.00147	.10454	6.1030	.00134	.20677	-.00101

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.413	.16533	3.0397	.75144	33.688	.01788	.01737
SDev	.010	.00017	.0007	.00001	.013	.00004	.00077
%RSD	.04760	.10162	.02464	.00116	.03963	.24711	4.4363
#1	20.406	.16522	3.0392	.75145	33.679	.01785	.01683
#2	20.420	.16545	3.0402	.75144	33.698	.01791	.01792

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31679	7.9698	.11219	.18116	.26431	3.2396	7.2292
SDev	.00222	.0098	.00009	.00025	.00039	.0137	.0162
%RSD	.70005	.12345	.07949	.13632	.14679	.42394	.22459
#1	.31522	7.9629	.11213	.18099	.26458	3.2299	7.2177
#2	.31835	7.9768	.11226	.18134	.26403	3.2493	7.2407

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	52.052	52.912	1.6652	-.00088	.03553	12.888
SDev	.00018	.140	.020	.0001	.00121	.00228	.010
%RSD	38.235	.26931	.03781	.00460	137.49	6.4211	.07720
#1	.00060	51.953	52.926	1.6651	-.00174	.03392	12.881
#2	.00034	52.151	52.898	1.6652	-.00002	.03714	12.895

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23273	.09966	.01889	.01662	.29410	.32813

A100112

SDev	.00019	.00039	.00107	.00062	.00250	.00208
%RSD	.08323	.38990	5.6674	3.7365	.84931	.63315
#1	.23259	.09939	.01813	.01618	.29233	.32666
#2	.23286	.09994	.01965	.01706	.29587	.32960

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39772	--	--	--	--	--	--
SDev	62.22539	--	--	--	--	--	--
%RSD	.1564553	--	--	--	--	--	--
#1	39816	--	--	--	--	--	--
#2	39728	--	--	--	--	--	--

♀

10/01/12 12:33:18 PM page 28

Method: 20076010 Sample Name: 600-61940-a-2-a Operator: DCL
Run Time: 10/01/12 12:29:24
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.836	.00099	.10587	5.3340	.00130	.21839	-.00061
SDev	.029	.00720	.00548	.0094	.00008	.00126	.00002
%RSD	.05996	726.71	5.1781	.17696	6.4682	.57796	3.4708
#1	47.856	.00608	.10975	5.3273	.00136	.21928	-.00059
#2	47.816	-.00410	.10200	5.3407	.00124	.21750	-.00062

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.356	.16555	3.0890	.80754	12.274	.01680	.01460
SDev	.104	.00172	.0148	.00046	.041	.00002	.00033
%RSD	.51001	1.0379	.47930	.05708	.33590	.10318	2.2634
#1	20.429	.16677	3.0994	.80787	12.303	.01679	.01437
#2	20.283	.16434	3.0785	.80722	12.245	.01681	.01483

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32580	7.7196	.11283	.18722	.25984	3.2607	7.8063
SDev	.00087	.0471	.00060	.00114	.00032	.0098	.0024
%RSD	.26811	.60976	.53535	.61140	.12459	.30065	.03048
#1	.32642	7.7529	.11325	.18803	.26007	3.2537	7.8079
#2	.32518	7.6863	.11240	.18641	.25961	3.2676	7.8046

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	56.097	56.338	1.5835	.00070	.03838	12.762
SDev	.00004	.115	.166	.0022	.00264	.00085	.017
%RSD	10.473	.20500	.29533	.13923	377.04	2.2283	.13030
#1	.00037	56.015	56.220	1.5820	.00257	.03899	12.773
#2	.00043	56.178	56.455	1.5851	-.00117	.03778	12.750

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.23295	.11054	.01231	.01574	.29248	.34246
SDev	.00154	.00001	.00831	.00366	.00348	.00305
%RSD	.66089	.00466	67.501	23.237	1.1891	.89040
#1	.23403	.11055	.00643	.01833	.29002	.34462
#2	.23186	.11054	.01818	.01316	.29494	.34031

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39206	--	--	--	--	--	--
SDev	295.5707	--	--	--	--	--	--
%RSD	.7538913	--	--	--	--	--	--

#1	39415	--	--	--	--	--
#2	38997	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-61887-b-32-a Operator: DCL
Run Time: 10/01/12 12:33:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	211.70	.87354	.90166	1.8787	.41826	.89015	.42835
SDev	2.83	.01415	.01460	.0263	.00588	.01205	.00656
%RSD	1.3387	1.6197	1.6196	1.4012	1.4051	1.3536	1.5313
#1	209.70	.86353	.89134	1.8601	.41411	.88163	.42371
#2	213.70	.88354	.91199	1.8974	.42242	.89867	.43299

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.511	1.0112	.89462	.95409	198.24	1.0469	1.0704
SDev	1.276	.0140	.01314	.01329	2.80	.0131	.0160
%RSD	1.4251	1.3801	1.4686	1.3930	1.4136	1.2484	1.4923
#1	88.609	1.0013	.88533	.94469	196.26	1.0377	1.0591
#2	90.413	1.0210	.90391	.96349	200.23	1.0562	1.0817

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.82322	46.055	1.9442	.86411	1.0350	23.599	9.9791
SDev	.01085	.657	.0273	.01503	.0166	.262	.1269
%RSD	1.3181	1.4271	1.4017	1.7399	1.6012	1.1101	1.2713
#1	.81555	45.590	1.9249	.85348	1.0233	23.414	9.8894
#2	.83089	46.519	1.9635	.87474	1.0467	23.784	10.069

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43231	23.330	24.001	.90186	.85953	.86706	.98969
SDev	.00602	.310	.289	.01276	.01132	.01192	.01295
%RSD	1.3912	1.3307	1.2053	1.4143	1.3176	1.3742	1.3085
#1	.42806	23.111	23.797	.89284	.85152	.85863	.98054
#2	.43657	23.550	24.206	.91088	.86754	.87548	.99885

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1781	1.1906	.95374	1.1288	.73941	.86512
SDev	.0168	.0168	.01109	.0184	.00916	.01170
%RSD	1.4243	1.4148	1.1624	1.6317	1.2393	1.3518
#1	1.1662	1.1787	.94590	1.1158	.73293	.85685
#2	1.1899	1.2025	.96158	1.1418	.74589	.87339

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	43040	--	--	--	--	--	--
SDev	473.7615	--	--	--	--	--	--
%RSD	1.100747	--	--	--	--	--	--
#1	43375	--	--	--	--	--	--
#2	42705	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-61887-b-32a@5 Operator: DCL
Run Time: 10/01/12 12:37:20
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	46.163	.00441	.00631	.22062	.00286	.00775	-.00045
SDev	.075	.00038	.00085	.00078	.00003	.00009	.00000
%RSD	.16264	8.5934	13.442	.35419	1.0129	1.1285	.00397
#1	46.110	.00414	.00691	.22007	.00284	.00781	-.00045
#2	46.216	.00468	.00571	.22117	.00288	.00769	-.00045

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.522	.04383	.02077	.01981	41.941	.02423	.05483
SDev	.003	.00011	.00031	.00013	.020	.00016	.00015
%RSD	.01557	.25231	1.4768	.67641	.04826	.66643	.27451
#1	18.520	.04391	.02055	.01971	41.927	.02412	.05494
#2	18.524	.04375	.02098	.01990	41.955	.02435	.05472

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00250	8.5150	.25297	.00403	.03575	2.6386	2.0655
SDev	.00086	.0028	.00028	.00187	.00015	.0024	.0014
%RSD	34.186	.03337	.10970	46.468	.40449	.09172	.06877
#1	-.00190	8.5170	.25277	.00536	.03564	2.6403	2.0665
#2	-.00311	8.5130	.25317	.00271	.03585	2.6369	2.0645

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00105	2.8360	2.8588	.10163	-.00108	.00706	.03127
SDev	.00012	.0249	.0034	.00038	.00131	.00075	.00013
%RSD	11.464	.87934	.11961	.37262	121.33	10.651	.39830
#1	-.00096	2.8537	2.8564	.10137	-.00015	.00759	.03118

#2	-.00113	2.8184	2.8613	.10190	-.00200	.00653	.03136

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07928	.07381	.04602	.05924	-.00320	-.00216
SDev	.00000	.00063	.00166	.00060	.00236	.00010
%RSD	.00150	.85717	3.5997	1.0170	73.903	4.7691
#1	.07928	.07337	.04719	.05881	-.00153	-.00209

#2	.07928	.07426	.04484	.05966	-.00487	-.00223

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39995	--	--	--	--	--	--
SDev	8.485281	--	--	--	--	--	--
%RSD	.0212159	--	--	--	--	--	--
#1	40001	--	--	--	--	--	--
#2	39989	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0912ccv_00005 Operator: DCL
Run Time: 10/01/12 12:41:18
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4125	.49450	.49513	.49147	.45957	.49390	.50350
SDev	.0065	.00201	.00085	.00065	.00012	.00049	.00010
%RSD	.27091	.40567	.17181	.13168	.02548	.09871	.01897
#1	2.4079	.49308	.49453	.49192	.45949	.49356	.50344
#2	2.4171	.49592	.49573	.49101	.45966	.49425	.50357

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.035	.46649	.46466	.46142	2.4756	.45241	.48093
SDev	.010	.00084	.00003	.00070	.0082	.00083	.00017
%RSD	.08108	.17926	.00577	.15211	.33217	.18343	.03615
#1	12.028	.46589	.46464	.46191	2.4698	.45299	.48106
#2	12.041	.46708	.46467	.46092	2.4814	.45182	.48081

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47905	4.6952	.47140	.50002	.51437	12.040	.89578
SDev	.00006	.0002	.00011	.00293	.00081	.004	.00403
%RSD	.01174	.00498	.02369	.58573	.15699	.03563	.44969
#1	.47909	4.6950	.47148	.49795	.51494	12.043	.89863
#2	.47901	4.6954	.47133	.50209	.51380	12.037	.89293

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24078	12.175	11.971	.24406	.52458	.47926	.48522
SDev	.00020	.103	.025	.00030	.00100	.00010	.00016
%RSD	.08466	.84977	.20582	.12289	.19058	.02033	.03364

#1	.24063	12.249	11.989	.24427	.52387	.47919	.48534
#2	.24092	12.102	11.954	.24385	.52529	.47933	.48511
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.47414	.50449	.42787	.50747	.42840	.50443	♀

SDev	.00073	.00075	.00101	.00077	.00037	.00010	
%RSD	.15510	.14917	.23695	.15129	.08605	.01983	
#1	.47362	.50395	.42715	.50801	.42866	.50436	
#2	.47466	.50502	.42859	.50693	.42814	.50450	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38970	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.2122926	--	--	--	--	--	--
#1	39029	--	--	--	--	--	--
#2	38912	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 12:45:17
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07218	.00130	-.00089	.00008	-.00105	.00167	-.00000
SDev	.00247	.00024	.00063	.00001	.00002	.00095	.00004
%RSD	3.4214	18.436	70.975	9.9152	2.3112	56.850	799.53
#1	.07043	.00113	-.00044	.00007	-.00106	.00235	.00002
#2	.07393	.00147	-.00133	.00008	-.00103	.00100	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00872	.00007	-.00004	-.00340	-.00217	.00007	.00108
SDev	.00135	.00014	.00008	.00002	.00813	.00002	.00138
%RSD	15.526	213.86	197.44	.72992	374.55	27.526	127.79
#1	-.00968	.00016	.00002	-.00341	-.00792	.00005	.00010
#2	-.00776	-.00003	-.00010	-.00338	.00358	.00008	.00205

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.00004	-.00002	.00153	-.00021	-.03654	-.00420
SDev	.00190	.00162	.00005	.00116	.00035	.00295	.00223
%RSD	2830.4	4022.5	214.18	75.579	166.55	8.0646	53.165
#1	.00127	-.00111	-.00006	.00235	-.00045	-.03862	-.00262
#2	-.00141	.00119	.00001	.00071	.00004	-.03446	-.00578

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00020	-.03802	-.01421	.00002	.00517	.00018	.00004
SDev	.00008	.11178	.00003	.00001	.00145	.00116	.00007
%RSD	40.174	294.03	.20730	18.619	28.092	630.50	166.07

#1	-.00026	.04102	-.01423	.00002	.00619	.00101	.00009
#2	-.00015	-.11706	-.01419	.00003	.00414	-.00064	-.00001

♀
Analysis Report 10/01/12 12:49:11 PM page 33

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00023	.00025	.00149	.00258	-.00139
SDev	.00030	.00008	.00169	.00122	.00040	.00305
%RSD	71.004	35.583	687.59	81.657	15.384	218.82
#1	.00064	.00018	-.00095	.00063	.00230	.00076
#2	.00021	.00029	.00144	.00235	.00286	-.00355

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38628	--	--	--	--	--	--
SDev	18.38478	--	--	--	--	--	--
%RSD	.0475944	--	--	--	--	--	--
#1	38641	--	--	--	--	--	--
#2	38615	--	--	--	--	--	--

♀
Analysis Report 10/01/12 01:28:37 PM page 1

Method: 20076010 Sample Name: 600-61851-b-2-a@20 Operator: DCL
Run Time: 10/01/12 13:24:50
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.822	.11721	.09797	.19274	-.00069	.01619	.28637
SDev	.026	.00080	.00000	.00013	.00001	.00023	.00026
%RSD	.24487	.67912	.00187	.06704	1.2759	1.4220	.09262
#1	10.840	.11664	.09797	.19283	-.00068	.01635	.28656
#2	10.803	.11777	.09797	.19264	-.00069	.01602	.28618

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	73.013	.01898	.00465	.08035	20.050	.00570	42.187
SDev	.105	.00020	.00021	.00065	.020	.00001	.102
%RSD	.14345	1.0791	4.5640	.80720	.10070	.11236	.24171
#1	73.087	.01884	.00450	.08081	20.064	.00569	42.259
#2	72.939	.01913	.00480	.07989	20.036	.00570	42.115

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00069	2.2226	.25532	.00230	.02471	1.3485	.82284
SDev	.00177	.0033	.00031	.00008	.00041	.0030	.00474
%RSD	255.13	.15016	.12050	3.2931	1.6590	.22341	.57575
#1	.00056	2.2250	.25553	.00236	.02442	1.3506	.82619
#2	-.00195	2.2202	.25510	.00225	.02500	1.3464	.81949

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00038	3.1562	3.2694	.21427	.00021	.05043	.03248
SDev	.00002	.0639	.0050	.00016	.00078	.00122	.00014
%RSD	5.5020	2.0252	.15364	.07658	375.38	2.4199	.41981
#1	-.00040	3.1110	3.2729	.21439	-.00035	.04957	.03257
#2	-.00037	3.2014	3.2658	.21416	.00076	.05129	.03238

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04296	.64379	36.128	45.217	.00213	-.00211
SDev	.00012	.00019	.012	.159	.00232	.00150
%RSD	.27699	.02968	.03456	.35209	108.68	71.107
#1	.04304	.64365	36.119	45.329	.00377	-.00105
#2	.04287	.64392	36.137	45.104	.00049	-.00317

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38027	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--

#1	38027	--	--	--	--	--	--
#2	38027	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61940-a-1-a@10 Operator: DCL
Run Time: 10/01/12 13:28:40
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5960	.00216	.01029	.65032	-.00109	.02195	-.00010
SDev	.0048	.00018	.00077	.00018	.00001	.00006	.00027
%RSD	.10393	8.2213	7.5253	.02817	.63325	.28087	268.11
#1	4.5926	.00204	.01083	.65019	-.00109	.02191	-.00029
#2	4.5994	.00229	.00974	.65045	-.00108	.02200	.00009

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1772	.01704	.30951	.07179	3.5347	.00182	.02483
SDev	.0199	.00014	.00097	.00002	.0031	.00003	.01786
%RSD	.91539	.80100	.31286	.02439	.08811	1.5165	71.920
#1	2.1631	.01714	.31020	.07180	3.5324	.00184	.01220
#2	2.1913	.01695	.30883	.07178	3.5369	.00180	.03746

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03239	.82507	.01160	.01850	.02773	.28438	.74998
SDev	.00214	.00576	.00005	.00027	.00016	.01927	.00303
%RSD	6.6200	.69797	.45805	1.4666	.56631	6.7752	.40445
#1	.03390	.82914	.01157	.01831	.02761	.29800	.75212
#2	.03087	.82100	.01164	.01869	.02784	.27075	.74783

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	4.8325	5.5205	.17364	.00160	.00309	1.3164
SDev	.00013	.0049	.0008	.00004	.00050	.00017	.0016
%RSD	68.720	.10199	.01516	.02203	31.387	5.4239	.12226
#1	-.00027	4.8290	5.5211	.17362	.00124	.00321	1.3176
#2	-.00009	4.8360	5.5199	.17367	.00195	.00297	1.3153

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02423	.01801	.02323	.02563	.02814	.03451
SDev	.00002	.00034	.00042	.02658	.00046	.00345
%RSD	.09539	1.8937	1.8150	103.68	1.6476	9.9907
#1	.02421	.01777	.02293	.00684	.02781	.03695
#2	.02425	.01825	.02353	.04443	.02847	.03207

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38332	--	--	--	--	--	--
SDev	61.51829	--	--	--	--	--	--
%RSD	.1604860	--	--	--	--	--	--
#1	38289	--	--	--	--	--	--
#2	38376	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61940-a-2-a@10 Operator: DCL
Run Time: 10/01/12 13:32:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0183	.00035	.01024	.56427	-.00113	.02259	-.00007
SDev	.0015	.00132	.00212	.00084	.00004	.00049	.00030
%RSD	.02907	381.96	20.664	.14807	3.3653	2.1877	421.01
#1	5.0172	.00128	.01173	.56486	-.00116	.02294	-.00028
#2	5.0193	-.00059	.00874	.56368	-.00111	.02224	.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1185	.01649	.31424	.07613	1.3134	.00166	.00495
SDev	.0082	.00058	.00129	.00064	.0318	.00001	.00145
%RSD	.38893	3.5386	.40964	.84078	2.4179	.73251	29.220
#1	2.1127	.01690	.31333	.07658	1.2909	.00166	.00392
#2	2.1243	.01607	.31515	.07568	1.3358	.00165	.00597

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03322	.79648	.01144	.01918	.02848	.26525	.79771
SDev	.00035	.00430	.00010	.00006	.00109	.00189	.00080
%RSD	1.0545	.54001	.84259	.32551	3.8199	.71400	.10038
#1	.03298	.79344	.01151	.01922	.02771	.26659	.79714

#2	.03347	.79952	.01138	.01913	.02925	.26391	.79828

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	5.2608	5.8181	.16408	.00187	.00445	1.2936
SDev	.00058	.1935	.0086	.00019	.00313	.00152	.0011
%RSD	143.41	3.6786	.14764	.11330	167.59	34.042	.08395
#1	-.00001	5.1239	5.8120	.16421	-.00035	.00338	1.2944
#2	.00081	5.3976	5.8242	.16395	.00409	.00552	1.2928

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02375	.01384	.01151	.00166	.03563	.03202
SDev	.00071	.00019	.00858	.00212	.00712	.00304
%RSD	2.9746	1.3920	74.567	127.77	19.993	9.4818
#1	.02425	.01370	.00544	.00316	.03059	.03417

#2	.02325	.01397	.01758	.00016	.04067	.02987

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38527	--	--	--	--	--	--
SDev	202.2325	--	--	--	--	--	--
%RSD	.5249112	--	--	--	--	--	--
#1	38384	--	--	--	--	--	--
#2	38670	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00001 Operator: DCL
Run Time: 10/01/12 13:36:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3645	.49606	.48865	.49186	.44093	.49146	.50416
SDev	.0036	.00151	.00254	.00025	.00010	.00083	.00026
%RSD	.15290	.30489	.52085	.05062	.02150	.16867	.05132
#1	2.3670	.49713	.49045	.49168	.44086	.49087	.50398
#2	2.3619	.49499	.48685	.49203	.44100	.49204	.50434

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.805	.45183	.45045	.44553	2.4125	.45310	.47643
SDev	.009	.00044	.00091	.00040	.0070	.00007	.00073
%RSD	.07815	.09666	.20256	.08871	.28896	.01468	.15417
#1	11.812	.45214	.45110	.44580	2.4175	.45305	.47591
#2	11.799	.45152	.44981	.44525	2.4076	.45314	.47695

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47230	4.5638	.46114	.49348	.51498	12.135	.86396
SDev	.00074	.0027	.00019	.00001	.00081	.003	.00368
%RSD	.15708	.05986	.04033	.00291	.15778	.02374	.42595

#1	.47178	4.5658	.46127	.49347	.51440	12.137	.86656
#2	.47282	4.5619	.46101	.49349	.51555	12.133	.86136

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23698	11.870	11.988	.24520	.53055	.47027	.47794
SDev	.00084	.104	.002	.00006	.00018	.00076	.00029
%RSD	.35230	.87272	.01493	.02583	.03324	.16160	.05990
#1	.23757	11.943	11.989	.24516	.53042	.46974	.47773
#2	.23639	11.797	11.987	.24525	.53067	.47081	.47814

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46266	.50124	.40639	.51145	.40777	.50462

SDev	.00010	.00128	.00098	.00159	.00201	.00011
%RSD	.02144	.25644	.24180	.31149	.49370	.02107
#1	.46259	.50033	.40708	.51032	.40635	.50454
#2	.46273	.50215	.40569	.51257	.40920	.50469

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38286	--	--	--	--	--	--
SDev	77.07464	--	--	--	--	--	--
%RSD	.2013155	--	--	--	--	--	--
#1	38340	--	--	--	--	--	--
#2	38231	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 13:40:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09410	.00250	.00028	.00012	-.00128	.00124	-.00010
SDev	.00258	.00047	.00093	.00017	.00001	.00002	.00009
%RSD	2.7397	18.682	331.44	145.87	.45923	1.5222	90.578
#1	.09227	.00217	.00094	-.00000	-.00128	.00122	-.00017
#2	.09592	.00283	-.00038	.00024	-.00129	.00125	-.00004

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01053	.00008	.00003	-.00411	.00313	.00023	.00148
SDev	.00064	.00062	.00003	.00037	.00003	.00005	.00019
%RSD	6.0905	806.76	107.01	9.0466	1.0072	19.829	12.784
#1	-.01098	-.00036	.00005	-.00437	.00311	.00020	.00162
#2	-.01008	.00052	.00001	-.00384	.00315	.00027	.00135

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.01707	.00003	.00143	-.00069	.04766	-.01374
SDev	.00012	.00396	.00005	.00029	.00017	.02277	.00047
%RSD	36.409	23.185	210.21	20.601	25.079	47.768	3.3941

#1	.00043	.01427	-.00001	.00164	-.00082	.03156	-.01407
#2	.00025	.01987	.00006	.00122	-.00057	.06376	-.01341
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.01101	-.00890	.00008	.00247	-.00011	.00009
SDev	.00006	.05405	.00067	.00003	.00120	.00010	.00015
%RSD	84.357	491.07	7.5567	31.999	48.503	89.918	160.54
#1	-.00003	.04923	-.00937	.00006	.00331	-.00018	-.00001
#2	-.00012	-.02722	-.00842	.00010	.00162	-.00004	.00019

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.00026	.00183	.00131	.00543	-.00221
SDev	.00000	.00027	.00039	.00009	.00103	.00033
%RSD	.22514	102.35	21.116	6.9443	19.031	15.027
#1	.00063	.00007	.00211	.00137	.00616	-.00244
#2	.00063	.00045	.00156	.00124	.00470	-.00197

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38451	--	--	--	--	--	--
SDev	162.6346	--	--	--	--	--	--
%RSD	.4229657	--	--	--	--	--	--
#1	38566	--	--	--	--	--	--
#2	38336	--	--	--	--	--	--

Method: 20076010 Sample Name: mb 600-89856/1-a Operator: DCL
Run Time: 10/01/12 13:48:53
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10010	.00341	-.00091	.00013	-.00143	-.00031	.00004
SDev	.00267	.00062	.00072	.00010	.00007	.00092	.00006
%RSD	2.6648	18.270	79.078	71.371	5.0889	299.97	138.03
#1	.09822	.00297	-.00040	.00007	-.00138	-.00095	.00009
#2	.10199	.00385	-.00142	.00020	-.00149	.00034	.00000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02174	.00190	.00047	-.00441	.04409	.00001	.00249
SDev	.00035	.00049	.00013	.00005	.00303	.00007	.00009
%RSD	1.5986	25.640	27.088	1.2073	6.8759	789.76	3.4800
#1	-.02198	.00156	.00038	-.00437	.04194	-.00004	.00243
#2	-.02149	.00225	.00056	-.00444	.04623	.00006	.00255

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00030	-.00441	.00023	.00239	.00026	-.02421	-.01020
SDev	.00326	.00553	.00002	.00072	.00005	.03352	.00104
%RSD	1075.6	125.46	8.9871	30.054	17.124	138.49	10.193
#1	.00200	-.00831	.00022	.00290	.00029	-.04791	-.01093
#2	-.00261	-.00050	.00025	.00188	.00023	-.00050	-.00946

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	-.00928	-.01393	.00005	-.00199	.03905	-.00023
SDev	.00012	.06421	.00179	.00004	.00236	.00086	.00001
%RSD	2906.6	692.20	12.853	75.242	118.53	2.1912	3.3589
#1	-.00009	.03613	-.01520	.00002	-.00032	.03845	-.00024
#2	.00008	-.05468	-.01267	.00007	-.00366	.03966	-.00023

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	.00075	.00462	.00142	-.00391	.00150
SDev	.00017	.00039	.00072	.00049	.00365	.00307
%RSD	33.133	51.649	15.654	34.550	93.339	204.69
#1	.00040	.00048	.00513	.00108	-.00133	.00367
#2	.00064	.00103	.00411	.00177	-.00648	-.00067

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38044	--	--	--	--	--	--
SDev	340.8255	--	--	--	--	--	--
%RSD	.8958718	--	--	--	--	--	--

#1	38285	--	--	--	--	--	--
#2	37803	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-89856/2-a Operator: DCL
Run Time: 10/01/12 13:52:44
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	80.689	.66540	1.2817	2.5321	1.2820	.80423	.65415
SDev	.238	.00416	.0043	.0072	.0018	.00128	.00128
%RSD	.29544	.62556	.33633	.28381	.14390	.15895	.19509
#1	80.858	.66245	1.2847	2.5372	1.2833	.80513	.65505
#2	80.521	.66834	1.2786	2.5270	1.2807	.80333	.65325

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.875	.87475	1.1866	.94738	165.07	.08935	1.2535
SDev	.187	.00151	.0027	.00242	.50	.00023	.0022
%RSD	.22280	.17279	.22408	.25525	.30105	.25357	.17620
#1	84.007	.87582	1.1884	.94909	165.43	.08951	1.2551
#2	83.743	.87368	1.1847	.94567	164.72	.08919	1.2520

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7256	36.157	4.4980	.83477	1.2566	46.279	2.5271
SDev	.0010	.078	.0117	.00271	.0013	.004	.0037
%RSD	.05690	.21537	.26039	.32426	.10625	.00962	.14521
#1	1.7249	36.212	4.5062	.83286	1.2575	46.276	2.5297
#2	1.7262	36.102	4.4897	.83668	1.2557	46.282	2.5245

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41221	3.7850	6.4069	2.3340	1.6045	1.4065	3.6152
SDev	.00115	.0570	.0065	.0060	.0002	.0003	.0096
%RSD	.27996	1.5062	.10185	.25916	.01239	.02425	.26666
#1	.41303	3.7447	6.4115	2.3383	1.6047	1.4067	3.6220
#2	.41139	3.8254	6.4023	2.3297	1.6044	1.4063	3.6084

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.56389	2.1340	1.0620	1.3493	1.4744	1.8511
SDev	.00075	.0019	.0021	.0023	.0041	.0006
%RSD	.13306	.08813	.19583	.16848	.28070	.03223
#1	.56442	2.1353	1.0635	1.3509	1.4715	1.8515
#2	.56336	2.1327	1.0605	1.3477	1.4773	1.8507

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 01:56:33 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39702	--	--	--	--	--	--
SDev	47.37616	--	--	--	--	--	--
%RSD	.1193279	--	--	--	--	--	--
#1	39669	--	--	--	--	--	--
#2	39736	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-36-b Operator: DCL
Run Time: 10/01/12 13:56:36
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	91.368	.01387	.03332	1.0041	.00274	.10664	.00037
SDev	.099	.00375	.00170	.0009	.00002	.00028	.00024
%RSD	.10811	27.050	5.1186	.08975	.53715	.25954	63.744
#1	91.437	.01652	.03211	1.0048	.00275	.10684	.00054
#2	91.298	.01122	.03452	1.0035	.00273	.10645	.00020

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	883.55	.71756	.02896	.20249	173.18	.06405	.19549
SDev	1.06	.00068	.00016	.00031	.07	.00003	.00166
%RSD	.12047	.09472	.55760	.15204	.04179	.05080	.85123
#1	882.80	.71708	.02884	.20227	173.13	.06403	.19431

#2	884.30	.71804	.02907	.20271	173.24	.06408	.19667

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01318	35.462	8.4132	.03472	.12012	12.383	3.0443
SDev	.00033	.025	.0046	.00063	.00113	.034	.1286
%RSD	2.5170	.07163	.05444	1.8028	.94479	.27364	4.2230
#1	-.01295	35.444	8.4100	.03517	.11932	12.359	2.9534
#2	-.01341	35.480	8.4164	.03428	.12093	12.407	3.1352

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00117	1.9411	3.5454	1.9558	-.01515	.03302	1.7769
SDev	.00005	.0139	.0235	.0005	.00066	.00018	.0007
%RSD	4.0331	.71695	.66167	.02704	4.3695	.54123	.03881
#1	-.00113	1.9313	3.5288	1.9562	-.01468	.03289	1.7774
#2	-.00120	1.9510	3.5620	1.9554	-.01562	.03315	1.7764

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28897	.79056	.16462	.21093	-.00810	-.01572
SDev	.00007	.00077	.00363	.00068	.00302	.00101
%RSD	.02431	.09706	2.2032	.32366	37.261	6.4310
#1	.28902	.79002	.16205	.21045	-.00596	-.01644

#2	.28892	.79110	.16718	.21141	-.01023	-.01501

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35703	--	--	--	--	--	--
SDev	62.22539	--	--	--	--	--	--
%RSD	.1742862	--	--	--	--	--	--
#1	35747	--	--	--	--	--	--
#2	35659	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-36-c du Operator: DCL
Run Time: 10/01/12 14:00:28
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.022	.00949	.02067	.46925	.00255	.10013	-.00024
SDev	1.061	.00021	.00255	.00479	.00001	.00002	.00012
%RSD	1.0823	2.2644	12.353	1.0202	.26944	.01764	48.860
#1	98.772	.00934	.01887	.47263	.00255	.10011	-.00016
#2	97.272	.00964	.02248	.46586	.00254	.10014	-.00032

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	476.36	.12617	.02528	.05140	72.696	.05648	.08569
SDev	4.40	.00072	.00032	.00078	.685	.00063	.00143
%RSD	.92346	.56990	1.2668	1.5138	.94161	1.1068	1.6643

#1	479.47	.12668	.02551	.05195	73.180	.05692	.08670
#2	473.24	.12566	.02505	.05085	72.212	.05604	.08468

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00514	25.326	1.1562	.00811	.06845	10.586	3.4137
SDev	.00179	.257	.0110	.00001	.00057	.121	.0437
%RSD	34.904	1.0155	.95412	.12403	.83206	1.1449	1.2806
#1	-.00641	25.507	1.1640	.00812	.06885	10.672	3.4446
#2	-.00387	25.144	1.1484	.00810	.06804	10.500	3.3828

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00114	1.0378	2.0368	.47630	-.00678	.03024	1.3103
SDev	.00016	.0489	.0244	.00457	.00006	.00224	.0124
%RSD	14.433	4.7130	1.1987	.96032	.86465	7.4071	.95011
#1	-.00126	1.0032	2.0541	.47954	-.00673	.03182	1.3191
#2	-.00102	1.0724	2.0195	.47307	-.00682	.02865	1.3015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22799	.32920	.07039	.09334	-.00280	-.00631

SDev	.00179	.00430	.00078	.00175	.00059	.00299
%RSD	.78732	1.3061	1.1081	1.8740	21.124	47.351
#1	.22926	.33224	.07094	.09458	-.00238	-.00842
#2	.22672	.32616	.06984	.09210	-.00322	-.00419

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36595	--	--	--	--	--	--
SDev	318.1981	--	--	--	--	--	--
%RSD	.8695124	--	--	--	--	--	--
#1	36370	--	--	--	--	--	--
#2	36820	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-36-d ms Operator: DCL
Run Time: 10/01/12 14:04:19
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.13869	.00083	.00022	.00001	.00345	-.00005	-.00014
SDev	.00053	.00104	.00141	.00005	.00000	.00011	.00001
%RSD	.37966	125.96	646.21	362.72	.06557	226.78	6.5324
#1	-.13831	.00009	-.00078	-.00002	.00345	-.00012	-.00015
#2	-.13906	.00156	.00122	.00004	.00345	.00003	-.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02550	.00017	.00062	-.00768	.00711	-.00296	.00053
SDev	.00479	.00020	.00008	.00023	.00093	.00004	.00009
%RSD	18.772	115.44	13.085	2.9374	13.041	1.1980	16.656

#1	-.02211	.00003	.00068	-.00783	.00777	-.00294	.00047
#2	-.02888	.00032	.00056	-.00752	.00646	-.00299	.00060

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00085	-.29714	-.00005	.00038	-.00009	-1.6832	-.05490
SDev	.00081	.00341	.00001	.00037	.00012	.0172	.01813
%RSD	96.189	1.1471	11.637	98.719	141.78	1.0245	33.026
#1	-.00027	-.29473	-.00005	.00064	-.00017	-1.6710	-.04208
#2	-.00142	-.29955	-.00006	.00011	.00000	-1.6954	-.06773

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.25763	-.13971	.00008	.00568	.00040	.00046
SDev	.00011	.00875	.00127	.00001	.00050	.00029	.00002
%RSD	38.974	3.3948	.90658	13.886	8.7921	71.931	5.2158
#1	.00036	.25144	-.13882	.00007	.00604	.00060	.00044
#2	.00020	.26381	-.14061	.00009	.00533	.00020	.00047

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	-.00221	-.00088	.00124	.00785	-.00519
SDev	.00019	.00001	.00033	.00003	.00096	.00074
%RSD	59.695	.66652	36.797	2.3981	12.247	14.259
#1	.00018	-.00222	-.00112	.00126	.00853	-.00467
#2	.00045	-.00220	-.00065	.00122	.00717	-.00572

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	116346	--	--	--	--	--	--
SDev	1257.943	--	--	--	--	--	--
%RSD	1.081213	--	--	--	--	--	--
#1	115456	--	--	--	--	--	--
#2	117235	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-36-e msd Operator: DCL
Run Time: 10/01/12 14:08:10
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.13744	.00160	-.00014	.00003	.00336	.00002	-.00015
SDev	.00209	.00034	.00095	.00004	.00007	.00007	.00000
%RSD	1.5211	21.361	698.00	119.95	2.1055	326.12	1.3398
#1	-.13892	.00136	-.00081	.00000	.00331	-.00003	-.00016
#2	-.13597	.00185	.00054	.00006	.00341	.00007	-.00015

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03003	.00025	.00046	-.00760	-.00103	-.00272	.00037
SDev	.00015	.00026	.00005	.00020	.00323	.00012	.00022

%RSD	.49124	104.60	10.795	2.6454	313.46	4.3477	60.177
#1	-.02992	.00007	.00042	-.00775	-.00332	-.00264	.00021
#2	-.03013	.00044	.00049	-.00746	.00125	-.00280	.00053

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00058	-.27552	-.00005	.00008	-.00006	-1.5553	-.08009
SDev	.00003	.01090	.00004	.00002	.00018	.0635	.00224
%RSD	5.5290	3.9562	78.774	31.294	299.41	4.0845	2.7957
#1	-.00060	-.26782	-.00007	.00006	-.00018	-1.5104	-.07850
#2	-.00055	-.28323	-.00002	.00009	.00007	-1.6003	-.08167

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	.24116	-.13077	.00009	.00486	.00008	.00040
SDev	.00026	.00288	.00473	.00001	.00040	.00048	.00010

%RSD	133.13	1.1958	3.6197	12.408	8.2667	579.48	25.374
#1	.00001	.23912	-.12743	.00008	.00458	-.00026	.00033
#2	.00038	.24320	-.13412	.00010	.00515	.00042	.00047

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00049	-.00231	-.00266	.00189	.00669	-.00421
SDev	.00016	.00003	.00154	.00043	.00159	.00075
%RSD	32.289	1.1591	58.042	22.946	23.734	17.737
#1	.00038	-.00233	-.00375	.00219	.00557	-.00368
#2	.00060	-.00229	-.00157	.00158	.00782	-.00474

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	107027	--	--	--	--	--	--
SDev	4866.309	--	--	--	--	--	--
%RSD	4.546805	--	--	--	--	--	--
#1	103586	--	--	--	--	--	--
#2	110468	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-61887-b-36-b Operator: DCL
Run Time: 10/01/12 14:12:00
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	101.01	1.0423	1.0592	2.0437	.43588	1.1384	.48771
SDev	2.10	.0257	.0261	.0444	.00941	.0238	.01056
%RSD	2.0821	2.4696	2.4605	2.1718	2.1598	2.0903	2.1643
#1	99.524	1.0241	1.0408	2.0123	.42922	1.1216	.48024
#2	102.50	1.0605	1.0776	2.0751	.44254	1.1552	.49517

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	906.89	1.6106	.90131	1.1499	186.90	1.2689	1.1455

SDev	19.06	.0355	.01940	.0237	3.99	.0251	.0244
%RSD	2.1012	2.2070	2.1522	2.0609	2.1345	1.9759	2.1317
#1	893.41	1.5855	.88760	1.1332	184.08	1.2512	1.1282
#2	920.36	1.6357	.91503	1.1667	189.72	1.2867	1.1627

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95379	45.063	9.4202	1.0151	1.1312	25.782	4.4989
SDev	.02537	.966	.2037	.0240	.0238	.511	.1026
%RSD	2.6602	2.1430	2.1619	2.3657	2.0996	1.9839	2.2812
#1	.93585	44.380	9.2762	.99808	1.1145	25.421	4.4263
#2	.97173	45.746	9.5642	1.0320	1.1480	26.144	4.5714

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50813	13.520	17.003	2.5248	1.0174	.96934	2.7614
SDev	.00986	.227	.321	.0541	.0250	.01880	.0616
%RSD	1.9399	1.6809	1.8909	2.1442	2.4572	1.9393	2.2307
#1	.50116	13.359	16.775	2.4865	.99968	.95604	2.7178
#2	.51510	13.681	17.230	2.5631	1.0350	.98263	2.8050

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2032	1.8685	.96310	1.2367	.80536	1.0280
SDev	.0263	.0403	.02049	.0264	.02149	.0273
%RSD	2.1872	2.1554	2.1276	2.1334	2.6685	2.6569
#1	1.1846	1.8400	.94861	1.2180	.79017	1.0087
#2	1.2218	1.8970	.97759	1.2553	.82056	1.0473

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35198	--	--	--	--	--	--
SDev	703.5712	--	--	--	--	--	--
%RSD	1.998924	--	--	--	--	--	--
#1	35695	--	--	--	--	--	--
#2	34700	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-61887-b-36b@5 Operator: DCL
Run Time: 10/01/12 14:15:51
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.857	.00488	.00633	.20629	-.00085	.02413	-.00015
SDev	.031	.00076	.00066	.00001	.00001	.00015	.00010
%RSD	.16243	15.572	10.391	.00410	1.5100	.64196	68.739
#1	18.879	.00434	.00680	.20629	-.00086	.02424	-.00022
#2	18.835	.00542	.00587	.20628	-.00084	.02402	-.00008

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	218.68	.14952	.00581	.03627	36.230	.01192	.04237
SDev	.10	.00035	.00004	.00023	.009	.00010	.00136
%RSD	.04756	.23556	.68740	.62756	.02615	.80105	3.2144
#1	218.76	.14977	.00578	.03611	36.237	.01185	.04333
#2	218.61	.14927	.00583	.03643	36.223	.01199	.04141

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00137	7.4460	1.7974	.00934	.02525	2.1037	.72820
SDev	.00348	.0092	.0013	.00176	.00042	.0095	.00489
%RSD	254.06	.12322	.07007	18.823	1.6818	.45336	.67142

♀

#1	.00109	7.4525	1.7983	.01059	.02555	2.0970	.73166
#2	-.00383	7.4395	1.7965	.00810	.02495	2.1105	.72475

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00041	.37364	.74537	.39252	-.00263	.00555	.36730
SDev	.00024	.02833	.00193	.00008	.00090	.00042	.00002
%RSD	58.801	7.5812	.25904	.02080	34.073	7.6275	.00489
#1	-.00024	.35361	.74400	.39246	-.00326	.00525	.36731
#2	-.00058	.39367	.74673	.39258	-.00200	.00584	.36729

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06012	.17556	.03322	.04694	-.00451	.00020
SDev	.00005	.00018	.00076	.00167	.00454	.00295
%RSD	.07761	.10492	2.2769	3.5461	100.78	1475.5
#1	.06016	.17569	.03375	.04812	-.00130	.00228
#2	.06009	.17543	.03268	.04577	-.00772	-.00188

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36377	--	--	--	--	--	--
SDev	94.75231	--	--	--	--	--	--
%RSD	.2604731	--	--	--	--	--	--
#1	36444	--	--	--	--	--	--
#2	36310	--	--	--	--	--	--

♀

Method: 20076010 Sample Name: 600-61887-b-36-d ms Operator: DCL
Run Time: 10/01/12 14:20:48
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	108.31	.37127	1.0254	1.7723	.44004	1.0880	.48758
SDev	.02	.00709	.0021	.0008	.00015	.0013	.00028
%RSD	.01705	1.9086	.20611	.04776	.03490	.11837	.05790
#1	108.32	.36626	1.0269	1.7717	.43993	1.0871	.48778
#2	108.30	.37628	1.0239	1.7729	.44015	1.0889	.48738

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	628.35	1.1569	.89905	1.0410	110.35	.63377	1.0556
SDev	.60	.0002	.00037	.0005	.03	.00021	.0028
%RSD	.09588	.01878	.04112	.04888	.02812	.03344	.26208
#1	628.77	1.1568	.89879	1.0413	110.37	.63362	1.0576
#2	627.92	1.1571	.89931	1.0406	110.32	.63392	1.0537

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94103	33.803	3.9925	1.0031	1.1089	24.626	2.7586
SDev	.00137	.021	.0000	.0024	.0020	.008	.0042
%RSD	.14544	.06324	.00074	.24370	.18334	.03173	.15297
#1	.94200	33.818	3.9926	1.0013	1.1103	24.621	2.7616
#2	.94006	33.788	3.9925	1.0048	1.1075	24.632	2.7556

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50857	11.863	15.157	1.5559	1.0527	.89208	2.8317
SDev	.00085	.017	.003	.0008	.0044	.00038	.0023
%RSD	.16725	.14618	.01754	.04856	.41561	.04244	.08006
#1	.50917	11.851	15.159	1.5554	1.0557	.89235	2.8301
#2	.50797	11.876	15.155	1.5564	1.0496	.89182	2.8333

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1722	1.6681	.88053	1.1431	.79558	1.0138
SDev	.0001	.0001	.00065	.0038	.00037	.0022
%RSD	.00941	.00420	.07382	.33458	.04669	.22083
#1	1.1723	1.6682	.88099	1.1458	.79532	1.0153
#2	1.1722	1.6681	.88007	1.1404	.79584	1.0122

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35776	--	--	--	--	--	--
SDev	149.1995	--	--	--	--	--	--
%RSD	.4170322	--	--	--	--	--	--

Analysis Report 10/01/12 02:24:36 PM page 2

#1	35671	--	--	--	--	--	--
#2	35882	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61887-b-36-e msd Operator: DCL
Run Time: 10/01/12 14:24:39
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	106.07	.48486	1.0541	2.3200	.44432	1.1127	.49197
SDev	1.16	.00445	.0102	.0232	.00522	.0115	.00539
%RSD	1.0890	.91675	.96791	.99804	1.1739	1.0313	1.0955

#1	106.89	.48800	1.0614	2.3363	.44801	1.1208	.49578
#2	105.25	.48172	1.0469	2.3036	.44063	1.1046	.48815

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	980.52	1.5220	.91376	1.2153	164.09	.68630	1.1924
SDev	11.59	.0178	.01047	.0132	1.87	.00650	.0107
%RSD	1.1823	1.1724	1.1454	1.0829	1.1409	.94772	.89833
#1	988.71	1.5346	.92116	1.2246	165.42	.69090	1.2000
#2	972.32	1.5093	.90636	1.2060	162.77	.68170	1.1848

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95754	45.885	7.6784	1.0447	1.1430	29.044	4.7994
SDev	.01026	.538	.0853	.0132	.0132	.308	.0441
%RSD	1.0712	1.1721	1.1104	1.2617	1.1530	1.0621	.91786
#1	.96480	46.266	7.7387	1.0540	1.1523	29.262	4.8306
#2	.95029	45.505	7.6181	1.0354	1.1337	28.826	4.7683

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52344	14.349	17.720	3.0152	1.0604	.95082	2.2195
SDev	.00632	.300	.158	.0254	.0139	.01096	.0241
%RSD	1.2073	2.0929	.88887	.84373	1.3095	1.1530	1.0864
#1	.52791	14.562	17.831	3.0332	1.0702	.95858	2.2366
#2	.51897	14.137	17.608	2.9972	1.0506	.94307	2.2025

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1919	1.9685	.99661	1.2903	.81522	1.0287
SDev	.0137	.0183	.01056	.0108	.01675	.0070
%RSD	1.1469	.93132	1.0596	.83606	2.0548	.68150
#1	1.2015	1.9815	1.0041	1.2979	.82706	1.0337
#2	1.1822	1.9555	.98915	1.2826	.80337	1.0238

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 02:28:27 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35132	--	--	--	--	--	--
SDev	442.6488	--	--	--	--	--	--
%RSD	1.259959	--	--	--	--	--	--
#1	34819	--	--	--	--	--	--
#2	35445	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00001 Operator: DCL
Run Time: 10/01/12 14:28:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4387	.52825	.50712	.51123	.44370	.51498	.52794
SDev	.0555	.00708	.00632	.00993	.00802	.01074	.01007

%RSD	2.2776	1.3408	1.2468	1.9417	1.8068	2.0863	1.9075
#1	2.3994	.52324	.50265	.50421	.43803	.50738	.52082
#2	2.4779	.53326	.51159	.51825	.44937	.52257	.53506
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.088	.45744	.45572	.44662	2.4984	.47249	.49434
SDev	.303	.00900	.00839	.00806	.0750	.00780	.00772
%RSD	2.5103	1.9683	1.8399	1.8056	3.0034	1.6511	1.5614
#1	11.873	.45108	.44979	.44092	2.4454	.46697	.48888
#2	12.302	.46381	.46165	.45232	2.5515	.47800	.49980
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49093	4.6593	.46951	.51118	.53672	12.678	.89352
SDev	.00659	.0960	.00898	.01085	.00769	.244	.01494
%RSD	1.3418	2.0601	1.9119	2.1218	1.4335	1.9222	1.6721
#1	.48627	4.5914	.46316	.50351	.53128	12.505	.88295
#2	.49558	4.7272	.47585	.51885	.54216	12.850	.90408
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24138	12.200	12.450	.25367	.55717	.48220	.48938
SDev	.00450	.175	.197	.00517	.00782	.01191	.00879
%RSD	1.8646	1.4383	1.5847	2.0383	1.4032	2.4705	1.7953
#1	.23820	12.076	12.310	.25001	.55164	.47377	.48317
#2	.24456	12.324	12.589	.25733	.56270	.49062	.49560
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.46899	.51992	.40923	.53689	.41213	.53038	
SDev	.00830	.00983	.00733	.00791	.00208	.00884	
%RSD	1.7687	1.8909	1.7914	1.4738	.50548	1.6669	
#1	.46313	.51297	.40405	.53130	.41066	.52413	♀

#2	.47486	.52687	.41442	.54249	.41361	.53663	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37043	--	--	--	--	--	--
SDev	760.8469	--	--	--	--	--	--
%RSD	2.053956	--	--	--	--	--	--
#1	37581	--	--	--	--	--	--
#2	36505	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 14:32:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13073	.00716	.00040	.00015	-.00168	.00221	-.00016

SDev	.00837	.00127	.00031	.00005	.00002	.00010	.00009
%RSD	6.4007	17.746	76.691	32.951	1.4722	4.2952	54.137
#1	.12481	.00806	.00018	.00011	-.00167	.00228	-.00010
#2	.13665	.00627	.00062	.00018	-.00170	.00214	-.00022

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01082	.00014	.00000	-.00489	.00844	.00038	.00140
SDev	.01943	.00019	.00019	.00042	.01501	.00002	.00069
%RSD	179.59	134.82	5771.3	8.5462	177.93	5.7835	49.637
#1	-.00292	.00001	.00014	-.00459	.01905	.00037	.00091
#2	.02455	.00028	-.00013	-.00518	-.00218	.00040	.00189

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	.02885	.00012	.00260	-.00022	.09819	-.00948
SDev	.00183	.00308	.00011	.00149	.00055	.00493	.00218
%RSD	472.72	10.660	92.999	57.288	255.11	5.0217	22.953
#1	-.00169	.02667	.00004	.00365	.00017	.09470	-.00794
#2	.00091	.03102	.00020	.00154	-.00060	.10168	-.01102

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	-.08167	-.00289	.00011	.00265	.00135	-.00003
SDev	.00036	.05751	.00059	.00005	.00131	.00023	.00001
%RSD	155.03	70.419	20.364	42.918	49.705	17.387	40.126
#1	.00002	-.04100	-.00247	.00008	.00358	.00119	-.00004
#2	-.00049	-.12233	-.00331	.00015	.00172	.00152	-.00002

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00053	.00245	.00087	.00090	-.00103

SDev	.00025	.00010	.00077	.00143	.00366	.00458
%RSD	38.812	18.003	31.518	163.93	406.10	443.66
#1	.00083	.00046	.00300	-.00014	.00349	-.00427
#2	.00047	.00060	.00190	.00188	-.00169	.00221

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37584	--	--	--	--	--	--
SDev	131.5219	--	--	--	--	--	--
%RSD	.3499411	--	--	--	--	--	--
#1	37677	--	--	--	--	--	--
#2	37491	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61838-b-1-b Operator: DCL
Run Time: 10/01/12 14:41:01
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	183.33	.00630	.02728	1.5586	.00776	.07640	-.00072
SDev	.22	.00216	.00014	.0017	.00003	.00079	.00015
%RSD	.11866	34.276	.49317	.10893	.45420	1.0332	21.009
#1	183.17	.00477	.02737	1.5574	.00773	.07584	-.00083
#2	183.48	.00782	.02718	1.5598	.00778	.07696	-.00062

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	529.13	.17215	.04207	.08105	130.60	.10748	.15397
SDev	.43	.00007	.00006	.00009	.12	.00012	.00256
%RSD	.08161	.03970	.14212	.11185	.09158	.10774	1.6614
#1	528.82	.17210	.04203	.08099	130.51	.10739	.15216
#2	529.43	.17220	.04211	.08112	130.68	.10756	.15578

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00574	39.144	.88984	.00256	.08974	11.635	3.2303
SDev	.00047	.049	.00112	.00016	.00077	.001	.0057
%RSD	8.1768	.12644	.12627	6.2137	.86135	.01195	.17645
#1	-.00541	39.109	.88905	.00267	.08920	11.634	3.2262
#2	-.00607	39.179	.89064	.00245	.09029	11.636	3.2343

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00150	12.947	14.377	1.0558	-.00845	.03355	.26707
SDev	.00002	.046	.017	.0010	.00089	.00154	.00024
%RSD	1.5741	.35717	.12131	.09113	10.554	4.5864	.08883
#1	-.00152	12.914	14.365	1.0551	-.00782	.03247	.26690
#2	-.00148	12.980	14.389	1.0565	-.00908	.03464	.26724

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.27585	.46658	.12330	.16931	-.00480	-.00621
SDev	.00034	.00039	.00074	.00347	.00025	.00083
%RSD	.12169	.08334	.59866	2.0483	5.1059	13.314
#1	.27562	.46631	.12277	.16686	-.00498	-.00562
#2	.27609	.46686	.12382	.17176	-.00463	-.00679

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36946	--	--	--	--	--	--
SDev	44.54773	--	--	--	--	--	--
%RSD	.1205736	--	--	--	--	--	--

#1	36915	--	--	--	--	--	--
#2	36978	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61838-a-3-a Operator: DCL
Run Time: 10/01/12 14:44:52
Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	146.24	.00735	.02047	4.8762	.01038	.01808	-.00135
SDev	.50	.00355	.00174	.0180	.00003	.00020	.00019
%RSD	.34444	48.268	8.5151	.36861	.28152	1.1242	13.751
#1	145.89	.00986	.01923	4.8635	.01040	.01793	-.00122
#2	146.60	.00484	.02170	4.8889	.01036	.01822	-.00148

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.125	.12681	.05177	.08282	103.03	.10343	.14941
SDev	.120	.00025	.00017	.00057	.34	.00043	.00012
%RSD	.31460	.19823	.33332	.69472	.33431	.41711	.07742
#1	38.040	.12664	.05165	.08241	102.79	.10313	.14949
#2	38.210	.12699	.05189	.08323	103.27	.10374	.14932

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00529	39.597	1.4050	.00131	.11000	6.1288	2.8252
SDev	.00118	.135	.0036	.00087	.00173	.0310	.0131
%RSD	22.275	.33974	.25595	66.889	1.5744	.50575	.46425
#1	-.00612	39.502	1.4025	.00192	.10877	6.1069	2.8159
#2	-.00445	39.692	1.4075	.00069	.11122	6.1507	2.8344

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00207	16.673	17.222	.86766	-.00808	.03323	.12172
SDev	.00011	.057	.063	.00288	.00027	.00036	.00031
%RSD	5.4818	.33957	.36417	.33162	3.3451	1.0833	.25648
#1	-.00216	16.633	17.178	.86562	-.00789	.03298	.12150
#2	-.00199	16.713	17.267	.86969	-.00827	.03349	.12194

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19403	.25755	.11607	.16607	-.00559	-.00513
SDev	.00062	.00083	.00013	.00024	.00056	.00148
%RSD	.31873	.32236	.10995	.14290	10.058	28.934
#1	.19359	.25696	.11598	.16624	-.00599	-.00618
#2	.19447	.25814	.11616	.16591	-.00520	-.00408

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 02:48:40 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38540	--	--	--	--	--	--
SDev	171.1198	--	--	--	--	--	--
%RSD	.4440058	--	--	--	--	--	--
#1	38661	--	--	--	--	--	--
#2	38419	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61838-a-3-b du Operator: DCL

Run Time: 10/01/12 14:48:43
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	147.24	.00636	.02215	4.9892	.01096	.01467	-.00170
SDev	.08	.00316	.00298	.0112	.00001	.00017	.00003
%RSD	.05704	49.607	13.456	.22507	.04803	1.1788	1.8580
#1	147.18	.00859	.02426	4.9812	.01096	.01479	-.00172
#2	147.30	.00413	.02004	4.9971	.01096	.01454	-.00167

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.773	.12725	.09228	.08654	113.06	.10529	.14371
SDev	.049	.00026	.00027	.00001	.22	.00008	.00125
%RSD	.13065	.20274	.28910	.00956	.19158	.07987	.87290
#1	37.738	.12707	.09209	.08654	112.90	.10523	.14460
#2	37.808	.12743	.09247	.08655	113.21	.10535	.14283

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00747	40.636	1.5189	.00178	.13341	5.8409	2.6055
SDev	.00224	.044	.0023	.00063	.00022	.0019	.0003
%RSD	30.018	.10947	.14999	35.412	.16593	.03300	.01142
#1	-.00906	40.605	1.5173	.00133	.13356	5.8395	2.6053
#2	-.00588	40.667	1.5205	.00222	.13325	5.8422	2.6058

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00176	17.377	18.011	.89927	-.00872	.03138	.11202
SDev	.00012	.034	.021	.00194	.00299	.00155	.00008
%RSD	7.0536	.19626	.11483	.21615	34.252	4.9410	.07502
#1	-.00168	17.401	17.996	.89790	-.00661	.03028	.11196
#2	-.00185	17.353	18.025	.90065	-.01083	.03247	.11208

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24431	.27944	.11291	.15912	-.00905	-.00668
SDev	.00035	.00133	.00135	.00121	.00200	.00236
%RSD	.14377	.47449	1.1977	.75766	22.077	35.393
#1	.24406	.27850	.11386	.15997	-.01046	-.00835
#2	.24456	.28038	.11195	.15827	-.00763	-.00501

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39018	--	--	--	--	--	--
SDev	36.76955	--	--	--	--	--	--
%RSD	.0942374	--	--	--	--	--	--
#1	39044	--	--	--	--	--	--
#2	38992	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61838-a-3-c ms Operator: DCL
Run Time: 10/01/12 14:52:34
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	203.63	.50079	.92663	6.6786	.43450	.64826	.49465
SDev	.18	.00570	.00141	.0020	.00024	.00057	.00001
%RSD	.09012	1.1380	.15262	.02986	.05648	.08793	.00212
#1	203.76	.49676	.92563	6.6772	.43433	.64786	.49466
#2	203.50	.50482	.92763	6.6800	.43468	.64867	.49464

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.868	1.0309	.91231	.97400	141.35	.64426	1.0926
SDev	.048	.0007	.00038	.00174	.09	.00002	.0036
%RSD	.09185	.06978	.04145	.17886	.06578	.00289	.33379
#1	51.834	1.0304	.91205	.97523	141.29	.64427	1.0900
#2	51.902	1.0314	.91258	.97277	141.42	.64425	1.0952

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.83840	53.763	2.3338	.89812	1.1415	19.199	3.2933
SDev	.00017	.024	.0017	.00034	.0002	.019	.0037
%RSD	.02048	.04399	.07174	.03765	.01822	.09649	.11311
#1	.83852	53.746	2.3326	.89836	1.1414	19.212	3.2906
#2	.83827	53.780	2.3350	.89788	1.1417	19.186	3.2959

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47408	28.377	29.370	1.4688	1.0320	.91972	.62130
SDev	.00074	.040	.010	.0004	.0027	.00115	.00009
%RSD	.15652	.14110	.03309	.02767	.25758	.12557	.01453
#1	.47356	28.406	29.377	1.4685	1.0301	.91890	.62124
#2	.47461	28.349	29.363	1.4691	1.0339	.92053	.62136

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0854	1.2860	.88580	1.1960	.69900	.90810
SDev	.0007	.0016	.00122	.0049	.00670	.00309
%RSD	.06191	.12067	.13809	.40626	.95878	.34064
#1	1.0849	1.2849	.88494	1.1925	.70374	.90591
#2	1.0859	1.2871	.88667	1.1994	.69426	.91028

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38726	--	--	--	--	--	--
SDev	4.949748	--	--	--	--	--	--
%RSD	.0127816	--	--	--	--	--	--
#1	38722	--	--	--	--	--	--
#2	38729	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61838-a-3-d msd Operator: DCL
Run Time: 10/01/12 14:56:25
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	179.92	.51432	.92428	5.9192	.42605	.65997	.48645
SDev	1.40	.00372	.01122	.0387	.00277	.00352	.00292
%RSD	.77834	.72250	1.2139	.65346	.64969	.53315	.60004
#1	180.91	.51695	.93221	5.9465	.42801	.66246	.48852
#2	178.93	.51169	.91635	5.8918	.42410	.65748	.48439

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	42.210	.99479	.89870	.94350	129.55	.61247	1.1312
SDev	.269	.00623	.00599	.00652	.87	.00430	.0041
%RSD	.63815	.62668	.66637	.69105	.67445	.70258	.36463
#1	42.400	.99919	.90294	.94811	130.16	.61551	1.1341
#2	42.019	.99038	.89447	.93889	128.93	.60943	1.1283

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.83369	48.485	2.1690	.88914	1.1120	18.006	3.4409
SDev	.00315	.333	.0136	.00327	.0075	.140	.0190
%RSD	.37820	.68769	.62887	.36791	.67224	.77639	.55335
#1	.83592	48.721	2.1787	.89145	1.1173	18.105	3.4544
#2	.83146	48.249	2.1594	.88683	1.1067	17.907	3.4274

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46234	25.943	27.024	1.3495	1.0235	.90051	.64229
SDev	.00332	.162	.195	.0089	.0042	.00544	.00462
%RSD	.71836	.62253	.72107	.65717	.40931	.60418	.71936
#1	.46469	26.057	27.162	1.3558	1.0265	.90436	.64555
#2	.45999	25.828	26.887	1.3432	1.0205	.89666	.63902

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1469	1.2591	.92262	1.2355	.69087	.90510
SDev	.0065	.0081	.00482	.0038	.01154	.00104
%RSD	.56458	.64677	.52245	.30571	1.6698	.11474
#1	1.1514	1.2649	.92603	1.2381	.69903	.90436
#2	1.1423	1.2534	.91921	1.2328	.68271	.90583

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39028	--	--	--	--	--	--
SDev	187.3833	--	--	--	--	--	--
%RSD	.4801315	--	--	--	--	--	--
#1	38895	--	--	--	--	--	--

#2	39160	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61992-a-1-a@10 Operator: DCL
Run Time: 10/01/12 15:00:16
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.687	.05601	1.1078	1.2772	-.00089	.07613	.00440
SDev	.006	.00032	.0041	.0009	.00002	.00064	.00004
%RSD	.02509	.56722	.36906	.07266	2.4022	.84107	.91407
#1	24.683	.05624	1.1107	1.2766	-.00088	.07659	.00437
#2	24.692	.05579	1.1049	1.2779	-.00091	.07568	.00443

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.393	.20450	.26818	15.082	760.98	.01016	3.8041
SDev	.022	.00019	.00044	.015	.84	.00003	.0073
%RSD	.09690	.09086	.16273	.09771	.11014	.30135	.19248
#1	22.408	.20437	.26849	15.092	761.58	.01014	3.8093
#2	22.377	.20463	.26787	15.071	760.39	.01018	3.7990

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03254	13.206	.85888	2.8606	.05852	14.177	.39651
SDev	.00023	.008	.00071	.0011	.00030	.006	.00670
%RSD	.72081	.05718	.08208	.03797	.52022	.03911	1.6902
#1	-.03238	13.211	.85938	2.8599	.05830	14.181	.40125
#2	-.03271	13.200	.85838	2.8614	.05873	14.173	.39177

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00144	3.4343	3.9837	.15942	-.00791	.41987	1.7314
SDev	.00035	.0326	.0020	.00019	.00157	.00204	.0007

%RSD	24.621	.94994	.04915	.12183	19.834	.48555	.03959
#1	-.00119	3.4574	3.9823	.15928	-.00902	.42131	1.7319
#2	-.00169	3.4112	3.9851	.15956	-.00680	.41843	1.7309

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11069	15.233	3.1100	4.1512	-.03017	-.03373
SDev	.00000	.015	.0084	.0068	.00404	.00237
%RSD	.00307	.09725	.27014	.16340	13.402	7.0370
#1	.11069	15.244	3.1159	4.1560	-.03303	-.03205
#2	.11069	15.223	3.1041	4.1464	-.02731	-.03541

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36112	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.0665752	--	--	--	--	--	--

#1	36129	--	--	--	--	--	--
#2	36095	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61992-a-2-a@10 Operator: DCL
Run Time: 10/01/12 15:04:07
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.584	.04501	1.1605	1.3609	-.00094	.07770	.00313
SDev	.066	.00424	.0007	.0026	.00001	.00013	.00016
%RSD	.25700	9.4326	.06250	.19413	.79758	.16835	5.1666
#1	25.538	.04801	1.1610	1.3590	-.00094	.07761	.00301
#2	25.631	.04200	1.1599	1.3628	-.00095	.07779	.00324

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.305	.20725	.27936	15.954	795.49	.01077	4.0285
SDev	.030	.00008	.00010	.021	.05	.00002	.0094
%RSD	.12781	.03782	.03421	.13280	.00667	.13836	.23384
#1	23.327	.20720	.27942	15.939	795.53	.01076	4.0351
#2	23.284	.20731	.27929	15.969	795.46	.01078	4.0218

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03400	13.885	.91607	2.9688	.06005	14.904	.43658
SDev	.00504	.010	.00032	.0038	.00123	.038	.00202
%RSD	14.821	.06896	.03496	.12888	2.0458	.25278	.46323
#1	-.03757	13.891	.91630	2.9661	.06092	14.877	.43801
#2	-.03044	13.878	.91585	2.9715	.05918	14.931	.43515

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00122	3.6354	4.2238	.16711	-.00737	.43589	1.8492
SDev	.00044	.0018	.0202	.00033	.00425	.00013	.0007
%RSD	36.058	.05040	.47718	.19589	57.625	.02894	.03803
#1	-.00091	3.6341	4.2095	.16688	-.01038	.43598	1.8487
#2	-.00154	3.6367	4.2380	.16734	-.00437	.43580	1.8497

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11421	16.150	3.2789	4.4032	-.02937	-.03632
SDev	.00009	.018	.0105	.0089	.00080	.00796
%RSD	.07835	.11328	.32063	.20153	2.7254	21.917
#1	.11427	16.163	3.2864	4.4095	-.02881	-.04194
#2	.11415	16.137	3.2715	4.3969	-.02994	-.03069

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36030	--	--	--	--	--	--
SDev	26.87006	--	--	--	--	--	--
%RSD	.0745769	--	--	--	--	--	--

#1	36011	--	--	--	--	--	--
#2	36049	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61992-a-3-a@10 Operator: DCL
Run Time: 10/01/12 15:07:59
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.621	.05176	1.4623	1.3463	-.00095	.02288	.00777
SDev	.047	.00023	.0057	.0032	.00002	.00125	.00053
%RSD	.21871	.43870	.39138	.23896	1.8472	5.4481	6.7883
#1	21.654	.05160	1.4583	1.3486	-.00097	.02200	.00814
#2	21.588	.05192	1.4664	1.3441	-.00094	.02376	.00740

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.871	.18094	.28312	15.006	714.92	.01094	5.3736
SDev	.019	.00061	.00095	.051	.71	.00001	.0476
%RSD	.12895	.33479	.33467	.34237	.09963	.07933	.88498
#1	14.858	.18051	.28379	15.043	714.42	.01095	5.3400
#2	14.885	.18136	.28245	14.970	715.42	.01094	5.4072

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03104	8.8406	1.0343	2.2561	.11240	14.371	.38692
SDev	.00046	.0158	.0003	.0012	.00069	.073	.00218
%RSD	1.4735	.17875	.03277	.05461	.61758	.50713	.56279

#1	-.03072	8.8294	1.0341	2.2569	.11290	14.423	.38845
#2	-.03136	8.8517	1.0346	2.2552	.11191	14.320	.38538

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	4.5255	4.2449	.18393	-.00055	.78712	1.6906
SDev	.00094	.2500	.0209	.00032	.00647	.00030	.0011
%RSD	358.63	5.5250	.49288	.17632	1167.6	.03815	.06468
#1	.00093	4.7023	4.2597	.18416	.00402	.78691	1.6914
#2	-.00040	4.3487	4.2301	.18370	-.00513	.78733	1.6898

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10798	22.254	4.4025	5.8591	-.01525	-.03893
SDev	.00036	.042	.0337	.0882	.01296	.00579
%RSD	.33086	.18909	.76590	1.5052	84.960	14.881
#1	.10773	22.224	4.4264	5.7968	-.00609	-.04303
#2	.10823	22.284	4.3787	5.9215	-.02442	-.03484

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36388	--	--	--	--	--	--
SDev	.7071068	--	--	--	--	--	--

%RSD	.0019432	--	--	--	--	--	--
#1	36388	--	--	--	--	--	--
#2	36389	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-61992-a-4-a@10 Operator: DCL
Run Time: 10/01/12 15:11:50
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.614	.04974	1.2271	1.2183	-.00110	.05882	.02746
SDev	.115	.00194	.0020	.0032	.00001	.00056	.00010
%RSD	.50990	3.9005	.16163	.26197	.75403	.95495	.36061
#1	22.696	.04837	1.2285	1.2206	-.00110	.05922	.02739
#2	22.533	.05112	1.2257	1.2161	-.00109	.05842	.02753

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.051	.17978	.26290	14.838	728.84	.01019	4.1597
SDev	.031	.00007	.00047	.057	1.59	.00000	.0045
%RSD	.17123	.04008	.18039	.38623	.21880	.00014	.10784
#1	18.072	.17973	.26324	14.878	729.96	.01019	4.1629
#2	18.029	.17983	.26256	14.797	727.71	.01019	4.1566

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03227	11.085	.86749	2.6174	.08055	13.717	.43771
SDev	.00100	.019	.00114	.0019	.00063	.049	.00432
%RSD	3.1088	.16931	.13182	.07117	.77792	.35805	.98780
#1	-.03156	11.098	.86829	2.6187	.08011	13.752	.44077
#2	-.03298	11.072	.86668	2.6161	.08099	13.683	.43465

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00116	3.5468	3.9283	.16111	-.00254	.52619	1.7248
SDev	.00013	.0734	.0246	.00035	.00090	.00004	.0041
%RSD	11.328	2.0707	.62510	.21916	35.249	.00698	.23943
#1	-.00126	3.5988	3.9457	.16135	-.00191	.52622	1.7278
#2	-.00107	3.4949	3.9109	.16086	-.00317	.52617	1.7219

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10608	17.145	3.3764	4.5514	-.02466	-.03608
SDev	.00018	.015	.0014	.0060	.00094	.00197
%RSD	.16683	.08695	.04231	.13215	3.8121	5.4742
#1	.10595	17.156	3.3774	4.5556	-.02532	-.03468
#2	.10620	17.135	3.3754	4.5471	-.02400	-.03747

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	35972	--	--	--	--	--	--
SDev	31.11270	--	--	--	--	--	--
%RSD	.0864914	--	--	--	--	--	--
#1	35994	--	--	--	--	--	--
#2	35950	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62038-b-1-b Operator: DCL
Run Time: 10/01/12 15:15:41
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	116.12	.00801	.13574	.46073	.00182	.00593	-.01071
SDev	.02	.00000	.00154	.00006	.00004	.00013	.00021
%RSD	.01790	.02531	1.1337	.01214	2.1891	2.2004	1.9728
#1	116.10	.00801	.13683	.46069	.00179	.00583	-.01056
#2	116.13	.00801	.13465	.46077	.00185	.00602	-.01086

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.062	.31659	.02516	.09713	549.48	.02792	.17877
SDev	.023	.00039	.00006	.00012	1.00	.00002	.00075
%RSD	.17231	.12368	.23771	.11895	.18258	.08239	.41741

#1	13.046	.31686	.02520	.09705	548.77	.02790	.17930
#2	13.078	.31631	.02512	.09721	550.19	.02793	.17825

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02800	2.4789	1.9948	.02905	.03747	3.7140	2.4606
SDev	.00076	.0029	.0024	.00279	.00059	.0049	.0021
%RSD	2.7002	.11762	.12033	9.6018	1.5620	.13211	.08518
#1	-.02853	2.4768	1.9931	.03103	.03789	3.7105	2.4591
#2	-.02746	2.4810	1.9965	.02708	.03706	3.7174	2.4621

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00445	-.54197	.22221	.07800	-.01120	.04147	1.1252
SDev	.00003	.04471	.00044	.00011	.00095	.00081	.0006
%RSD	.76079	8.2492	.19659	.14056	8.4975	1.9537	.05454
#1	-.00443	-.57358	.22190	.07792	-.01052	.04090	1.1248
#2	-.00447	-.51035	.22252	.07808	-.01187	.04205	1.1257

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93542	.15840	.14580	.19526	-.02660	-.02870
SDev	.00102	.00015	.00133	.00046	.00296	.00035
%RSD	.10934	.09639	.91076	.23322	11.144	1.2137
#1	.93470	.15829	.14674	.19558	-.02870	-.02845
#2	.93614	.15850	.14486	.19494	-.02451	-.02894

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39593	--	--	--	--	--	--
SDev	56.56854	--	--	--	--	--	--
%RSD	.1428751	--	--	--	--	--	--
#1	39553	--	--	--	--	--	--
#2	39633	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00001 Operator: DCL
Run Time: 10/01/12 15:19:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4284	.52313	.50673	.51244	.43056	.51277	.53109
SDev	.0104	.00690	.00731	.00611	.00526	.00491	.00631
%RSD	.42706	1.3196	1.4425	1.1931	1.2220	.95707	1.1879
#1	2.4357	.52801	.51190	.51676	.43428	.51624	.53555
#2	2.4210	.51825	.50156	.50811	.42684	.50930	.52662

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.904	.44945	.44837	.43606	2.5754	.47812	.49586
SDev	.138	.00584	.00563	.00380	.1263	.00518	.00335
%RSD	1.1559	1.2987	1.2562	.87109	4.9047	1.0826	.67509
#1	12.002	.45358	.45236	.43875	2.4860	.48178	.49823
#2	11.807	.44532	.44439	.43337	2.6647	.47446	.49349

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48746	4.5790	.46388	.50675	.54229	12.905	.87282
SDev	.00479	.0593	.00541	.00439	.00467	.116	.01537
%RSD	.98304	1.2958	1.1660	.86531	.86070	.89755	1.7613
#1	.49085	4.6209	.46770	.50985	.54559	12.987	.88369
#2	.48407	4.5370	.46005	.50365	.53899	12.823	.86195

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23790	12.063	12.575	.25464	.55877	.47523	.48414
SDev	.00285	.016	.125	.00294	.00207	.00511	.00579
%RSD	1.1980	.13184	.99193	1.1526	.36975	1.0755	1.1952
#1	.23992	12.052	12.663	.25671	.56023	.47885	.48823
#2	.23589	12.074	12.487	.25256	.55731	.47162	.48005

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46063	.51774	.40205	.54277	.39920	.53162
SDev	.00568	.00395	.00004	.00504	.00082	.00681
%RSD	1.2331	.76222	.00980	.92875	.20607	1.2817
#1	.46464	.52053	.40202	.54633	.39978	.53644
#2	.45661	.51495	.40208	.53920	.39862	.52680

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36318	--	--	--	--	--	--
SDev	123.7437	--	--	--	--	--	--
%RSD	.3407274	--	--	--	--	--	--
#1	36230	--	--	--	--	--	--
#2	36405	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 15:23:23
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16008	.00405	-.00030	.00017	-.00187	.00124	-.00011
SDev	.00959	.00220	.00003	.00011	.00001	.00052	.00002
%RSD	5.9941	54.283	8.5243	63.252	.50072	41.858	18.606
#1	.15329	.00560	-.00028	.00009	-.00187	.00161	-.00010
#2	.16686	.00249	-.00031	.00024	-.00188	.00087	-.00013

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01135	.00005	.00009	-.00510	.03547	.00036	.00200
SDev	.00138	.00007	.00036	.00093	.03972	.00001	.00029
%RSD	12.174	135.64	395.01	18.162	111.99	3.5669	14.340
#1	-.01232	.00000	-.00016	-.00576	.00738	.00037	.00180
#2	-.01037	.00009	.00034	-.00445	.06356	.00035	.00220

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.02474	.00010	.00291	-.00033	.09300	-.01277
SDev	.00005	.00044	.00015	.00012	.00060	.00964	.00018
%RSD	37.339	1.7696	153.96	4.1281	183.84	10.365	1.4094
#1	.00016	.02505	-.00001	.00300	-.00075	.09981	-.01265
#2	.00009	.02444	.00020	.00283	.00010	.08618	-.01290

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00046	-.10712	-.00576	.00008	-.00057	-.00043	.00008
SDev	.00002	.01684	.00012	.00002	.00111	.00102	.00019
%RSD	4.8405	15.722	2.1137	26.754	195.99	234.65	234.51
#1	-.00048	-.09521	-.00568	.00006	.00022	-.00115	-.00005
#2	-.00045	-.11903	-.00585	.00009	-.00136	.00029	.00021

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00113	.00325	.00137	.00513	-.00238
SDev	.00000	.00084	.00003	.00045	.00043	.00029
%RSD	.30366	75.028	1.0754	32.649	8.4041	12.038
#1	.00040	.00053	.00328	.00105	.00483	-.00218
#2	.00040	.00172	.00323	.00169	.00544	-.00258

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36618	--	--	--	--	--	--
SDev	28.99138	--	--	--	--	--	--
%RSD	.0791714	--	--	--	--	--	--
#1	36598	--	--	--	--	--	--
#2	36639	--	--	--	--	--	--

♀

Analysis Report 10/01/12 03:32:34 PM page 1

Method: 20076010 Sample Name: mb 600-89903/1-a Operator: DCL
Run Time: 10/01/12 15:29:11
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16407	.00509	.00148	.00053	-.00197	.00110	-.00019
SDev	.00318	.00188	.00143	.00017	.00003	.00010	.00027
%RSD	1.9384	36.870	96.102	31.852	1.5491	8.7743	141.04
#1	.16632	.00642	.00048	.00064	-.00195	.00117	-.00038
#2	.16182	.00377	.00249	.00041	-.00200	.00103	-.00000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01435	.00033	-.00049	-.00539	-.01883	.00031	.00178
SDev	.00166	.00039	.00090	.00015	.04617	.00003	.00038
%RSD	11.580	120.50	183.93	2.7469	245.16	10.890	21.224
#1	-.01553	.00060	-.00113	-.00528	-.05148	.00034	.00151
#2	-.01318	.00005	.00015	-.00549	.01382	.00029	.00205

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00170	.02477	.00011	.00165	-.00099	.07524	-.01136
SDev	.00218	.00074	.00009	.00050	.00118	.00314	.00204
%RSD	128.34	2.9911	84.198	30.206	119.29	4.1734	17.952
#1	.00016	.02530	.00018	.00130	-.00182	.07302	-.00992
#2	.00324	.02425	.00004	.00200	-.00015	.07746	-.01280

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00107	-.26827	-.00140	.00011	-.00243	-.00078	-.00002
SDev	.00115	.26115	.00083	.00004	.00015	.00062	.00027
%RSD	106.86	97.348	59.234	35.692	6.2739	79.763	1281.7
#1	-.00189	-.45293	-.00081	.00014	-.00232	-.00123	.00017
#2	-.00026	-.08360	-.00199	.00009	-.00254	-.00034	-.00022

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	.00152	-.00311	.00423	-.00090	.00299
SDev	.00042	.00025	.01122	.00504	.01092	.00219
%RSD	81.643	16.226	360.53	119.33	1212.2	73.314
#1	.00082	.00170	-.01104	.00779	-.00862	.00455

#2	.00022	.00135	.00482	.00066	.00682	.00144

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36644	--	--	--	--	--	--
SDev	142.1285	--	--	--	--	--	--
%RSD	.3878681	--	--	--	--	--	--

Analysis Report 10/01/12 03:32:34 PM page 2

#1	36744	--	--	--	--	--	--
#2	36543	--	--	--	--	--	--

Analysis Report 10/01/12 03:36:30 PM page 1

Method: 20076010 Sample Name: lcs 600-89903/2-a Operator: DCL
Run Time: 10/01/12 15:33:07
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.5262	1.0682	1.0404	1.0642	.44412	1.0566	.54742
SDev	.0169	.0024	.0004	.0012	.00051	.0036	.00076
%RSD	.17765	.22643	.04284	.11579	.11493	.33595	.13868
#1	9.5143	1.0665	1.0407	1.0634	.44376	1.0541	.54688
#2	9.5382	1.0699	1.0401	1.0651	.44448	1.0591	.54796

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8331	.92099	.92416	.90346	10.189	.50024	1.0167
SDev	.0080	.00151	.00120	.00103	.028	.00013	.0078
%RSD	.08097	.16418	.13037	.11346	.27864	.02529	.76525
#1	9.8275	.91992	.92331	.90274	10.169	.50016	1.0112
#2	9.8387	.92206	.92501	.90419	10.209	.50033	1.0222

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0092	9.4253	.95354	1.0481	1.1205	10.855	.90600
SDev	.0074	.0170	.00118	.0004	.0022	.016	.00499
%RSD	.73153	.17998	.12341	.03397	.19257	.14880	.55053
#1	1.0040	9.4134	.95271	1.0478	1.1190	10.867	.90248
#2	1.0145	9.4373	.95437	1.0483	1.1221	10.844	.90953

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49642	9.7098	10.598	.53228	1.1538	.97154	.99590
SDev	.00119	.0117	.004	.00055	.0020	.00458	.00109
%RSD	.24001	.12020	.03686	.10289	.17554	.47154	.10902
#1	.49557	9.7016	10.595	.53189	1.1552	.96830	.99514
#2	.49726	9.7181	10.601	.53266	1.1524	.97478	.99667

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94593	1.0561	.82026	1.1149	.82940	1.0992

SDev	.00133	.0017	.00586	.0087	.00474	.0087
%RSD	.14064	.16237	.71446	.78394	.57145	.79192
#1	.94499	1.0549	.81612	1.1087	.82605	1.0930
#2	.94687	1.0574	.82440	1.1211	.83275	1.1053

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36702	--	--	--	--	--	--
SDev	78.48885	--	--	--	--	--	--
%RSD	.2138573	--	--	--	--	--	--

#1	36757	--	--	--	--	--
#2	36646	--	--	--	--	--

Method: 20076010 Sample Name: 600-62114-d-1-a Operator: DCL
Run Time: 10/01/12 15:37:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.29039	.00777	.01222	.24590	-.00226	.43157	.00025
SDev	.00182	.00092	.00031	.00097	.00005	.00114	.00022
%RSD	.62639	11.811	2.5516	.39414	2.1119	.26324	89.285
#1	.28910	.00842	.01200	.24522	-.00223	.43077	.00041
#2	.29168	.00712	.01244	.24659	-.00230	.43237	.00009

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	85.910	.00074	.00114	-.00121	.41577	.04493	.00165
SDev	.250	.00029	.00020	.00012	.00504	.00016	.00008
%RSD	.29153	39.644	17.929	9.8956	1.2125	.36723	4.6335
#1	85.733	.00095	.00129	-.00129	.41934	.04481	.00159
#2	86.087	.00053	.00100	-.00112	.41221	.04505	.00170

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01074	23.477	.12431	.10970	.00506	25.453	8.3871
SDev	.00011	.068	.00027	.00160	.00030	.099	.0226
%RSD	1.0438	.29069	.21561	1.4603	5.9888	.39067	.26945
#1	.01082	23.428	.12412	.11083	.00484	25.383	8.3711
#2	.01066	23.525	.12450	.10857	.00527	25.523	8.4031

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	762.06	450.27	1.2839	.00114	.00205	.00012
SDev	.00035	2.69	.77	.0051	.00078	.00077	.00011
%RSD	196.46	.35310	.17188	.39520	68.863	37.548	89.514
#1	.00042	760.15	449.72	1.2804	.00169	.00260	.00020
#2	-.00007	763.96	450.81	1.2875	.00058	.00151	.00004

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01926	.10229	.00120	.00187	.01178	.01022
SDev	.00004	.00060	.00006	.00014	.00187	.00077
%RSD	.19555	.58365	5.0041	7.7152	15.902	7.5198
#1	.01923	.10271	.00124	.00177	.01310	.00967
#2	.01929	.10187	.00115	.00197	.01045	.01076

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34422	--	--	--	--	--	--
SDev	101.8234	--	--	--	--	--	--
%RSD	.2958090	--	--	--	--	--	--
#1	34494	--	--	--	--	--	--
#2	34350	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62114-d-1-b du Operator: DCL
Run Time: 10/01/12 15:41:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28436	.00564	.01042	.24662	-.00237	.43277	-.00011
SDev	.00066	.00086	.00021	.00007	.00005	.00025	.00008
%RSD	.23098	15.280	1.9988	.02685	2.2146	.05803	69.775
#1	.28389	.00503	.01028	.24667	-.00240	.43294	-.00006
#2	.28482	.00625	.01057	.24657	-.00233	.43259	-.00017

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	85.788	.00032	.00071	-.00204	.41003	.04521	.00101
SDev	.179	.00012	.00017	.00014	.01091	.00002	.00009
%RSD	.20829	37.446	24.529	6.6567	2.6618	.04306	9.0220
#1	85.915	.00024	.00083	-.00214	.41774	.04523	.00107
#2	85.662	.00041	.00059	-.00194	.40231	.04520	.00094

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00837	23.588	.12512	.10872	.00431	25.641	8.4396
SDev	.00183	.050	.00014	.00025	.00040	.062	.0095
%RSD	21.839	.21279	.11020	.22904	9.3520	.24183	.11250
#1	.00966	23.623	.12521	.10854	.00460	25.685	8.4463
#2	.00708	23.552	.12502	.10890	.00403	25.597	8.4329

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00020	769.22	450.51	1.2908	.00034	.00220	-.00038
SDev	.00018	.40	.94	.0010	.00261	.00036	.00012
%RSD	93.267	.05232	.20946	.07699	778.30	16.540	32.279
#1	-.00007	769.51	451.18	1.2915	-.00151	.00246	-.00047
#2	-.00033	768.94	449.84	1.2901	.00218	.00194	-.00029

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01844	.09209	.00087	.00108	.01166	.00672
SDev	.00010	.00028	.00050	.00011	.00264	.00142
%RSD	.55713	.30819	57.717	10.538	22.599	21.180
#1	.01837	.09189	.00122	.00100	.01353	.00773
#2	.01851	.09229	.00051	.00116	.00980	.00571

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34568	--	--	--	--	--	--
SDev	60.10408	--	--	--	--	--	--
%RSD	.1738695	--	--	--	--	--	--
#1	34526	--	--	--	--	--	--
#2	34611	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62114-d-1-c ms Operator: DCL
Run Time: 10/01/12 15:45:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.082	1.1313	1.1045	1.3258	.45051	1.5611	.54204
SDev	.243	.0267	.0216	.0281	.00968	.0305	.01106
%RSD	2.4130	2.3580	1.9587	2.1192	2.1488	1.9529	2.0400
#1	10.254	1.1502	1.1198	1.3457	.45736	1.5827	.54986
#2	9.9104	1.1124	1.0892	1.3059	.44367	1.5396	.53422

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	96.646	.91755	.93667	.95248	10.516	.69728	1.0244
SDev	2.017	.01970	.01973	.02248	.220	.01520	.0182
%RSD	2.0865	2.1466	2.1069	2.3604	2.0898	2.1794	1.7784
#1	98.071	.93148	.95062	.96838	10.671	.70803	1.0372
#2	95.220	.90362	.92271	.93659	10.360	.68654	1.0115

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0642	33.383	1.0837	1.1802	1.1264	41.559	9.6540
SDev	.0185	.713	.0225	.0239	.0227	.899	.2122
%RSD	1.7356	2.1354	2.0760	2.0245	2.0149	2.1635	2.1981
#1	1.0772	33.887	1.0996	1.1971	1.1424	42.195	9.8040
#2	1.0511	32.879	1.0677	1.1633	1.1103	40.923	9.5039

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52443	802.59	467.05	1.8755	1.1679	1.0178	1.0082
SDev	.01137	18.81	9.93	.0396	.0191	.0221	.0219
%RSD	2.1691	2.3440	2.1268	2.1103	1.6314	2.1726	2.1700
#1	.53248	815.89	474.07	1.9035	1.1814	1.0335	1.0237

#2	.51639	789.28	460.02	1.8475	1.1544	1.0022	.99271

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97164	1.1614	.82549	1.1238	.87445	1.1590

SDev	.02146	.0240	.01375	.0205	.01653	.0194
%RSD	2.2085	2.0659	1.6656	1.8198	1.8900	1.6774
#1	.98681	1.1783	.83521	1.1383	.88614	1.1728
#2	.95647	1.1444	.81577	1.1093	.86277	1.1453

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34067	--	--	--	--	--	--
SDev	683.0651	--	--	--	--	--	--
%RSD	2.005064	--	--	--	--	--	--
#1	33584	--	--	--	--	--	--
#2	34550	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62114-d-1-d msd Operator: DCL
Run Time: 10/01/12 15:49:47
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8619	1.1117	1.0893	1.2994	.44432	1.5346	.53776
SDev	.0002	.0023	.0030	.0005	.00048	.0015	.00150
%RSD	.00231	.20817	.27620	.03937	.10818	.09739	.27839
#1	9.8621	1.1101	1.0872	1.2991	.44398	1.5336	.53670
#2	9.8618	1.1133	1.0915	1.2998	.44466	1.5357	.53882

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.061	.90453	.92366	.92850	10.393	.68074	1.0172
SDev	.158	.00164	.00135	.00061	.028	.00020	.0054
%RSD	.16670	.18120	.14632	.06618	.26849	.02997	.53086
#1	94.948	.90337	.92270	.92894	10.374	.68060	1.0133
#2	95.173	.90569	.92461	.92807	10.413	.68089	1.0210

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0497	32.836	1.0653	1.1642	1.1153	40.398	9.4553
SDev	.0008	.055	.0012	.0022	.0015	.036	.0009
%RSD	.07900	.16696	.11339	.19064	.13780	.08859	.00954
#1	1.0503	32.797	1.0645	1.1626	1.1142	40.372	9.4547
#2	1.0491	32.875	1.0662	1.1657	1.1164	40.423	9.4560

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51344	778.63	453.91	1.8335	1.1666	1.0034	.98937
SDev	.00022	.17	.40	.0020	.0109	.0055	.00088
%RSD	.04264	.02183	.08912	.11161	.93244	.54414	.08928

#1	.51359	778.75	453.62	1.8320	1.1589	.99957	.98875
#2	.51328	778.51	454.20	1.8349	1.1743	1.0073	.99000

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95486	1.1599	.81651	1.1175	.85998	1.1446
SDev	.00114	.0019	.00339	.0064	.00189	.0022
%RSD	.11986	.16112	.41473	.57328	.22034	.19145
#1	.95405	1.1586	.81412	1.1130	.85864	1.1461
#2	.95567	1.1612	.81891	1.1220	.86132	1.1430

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34663	--	--	--	--	--	--
SDev	103.2376	--	--	--	--	--	--
%RSD	.2978323	--	--	--	--	--	--
#1	34736	--	--	--	--	--	--
#2	34590	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00001 Operator: DCL
Run Time: 10/01/12 15:53:56
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4145	.52491	.50794	.51303	.42619	.51824	.53328
SDev	.0139	.00399	.00041	.00281	.00213	.00340	.00280
%RSD	.57619	.75956	.08117	.54715	.50034	.65620	.52553
#1	2.4046	.52209	.50765	.51105	.42468	.51584	.53130
#2	2.4243	.52772	.50824	.51502	.42769	.52065	.53526

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.830	.44517	.44599	.43018	2.4625	.48200	.49700
SDev	.064	.00305	.00243	.00219	.0089	.00232	.00170
%RSD	.54235	.68465	.54373	.51028	.35961	.48151	.34258
#1	11.784	.44302	.44428	.42863	2.4563	.48036	.49580
#2	11.875	.44733	.44771	.43173	2.4688	.48365	.49820

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48792	4.5569	.46093	.50609	.54570	13.007	.86681
SDev	.00078	.0212	.00265	.00482	.00294	.057	.00254
%RSD	.16000	.46627	.57391	.95277	.53927	.44109	.29350
#1	.48848	4.5419	.45906	.50268	.54362	12.967	.86501
#2	.48737	4.5719	.46280	.50950	.54778	13.048	.86861

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23713	12.253	12.708	.25436	.56424	.47670	.48109
SDev	.00142	.083	.054	.00151	.00034	.00321	.00231

%RSD	.59694	.68034	.42377	.59310	.06071	.67417	.47939
#1	.23613	12.194	12.670	.25329	.56448	.47443	.47946
#2	.23813	12.312	12.747	.25542	.56400	.47897	.48272

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45709	.51612	.39792	.54654	.39598	.53394
SDev	.00214	.00254	.00166	.00172	.00031	.00102
%RSD	.46885	.49233	.41812	.31508	.07820	.19027
#1	.45558	.51433	.39674	.54532	.39620	.53466
#2	.45861	.51792	.39909	.54776	.39577	.53323

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36246	--	--	--	--	--	--
SDev	193.0402	--	--	--	--	--	--
%RSD	.5325907	--	--	--	--	--	--
#1	36382	--	--	--	--	--	--
#2	36109	--	--	--	--	--	--

♀

Analysis Report 10/01/12 04:01:18 PM page 1

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 15:57:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16376	.00390	.00066	.00010	-.00199	.00370	.00004
SDev	.00508	.00166	.00233	.00000	.00008	.00013	.00014
%RSD	3.1040	42.491	353.90	1.4188	3.8289	3.4708	348.06
#1	.16735	.00507	.00230	.00010	-.00204	.00361	-.00006
#2	.16016	.00273	-.00099	.00010	-.00194	.00379	.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00965	.00028	.00002	-.00561	.01087	.00095	.00094
SDev	.00013	.00003	.00007	.00002	.00764	.00012	.00178
%RSD	1.3803	11.201	366.75	.27704	70.299	12.981	190.31
#1	-.00956	.00026	-.00003	-.00560	.00547	.00104	.00219
#2	-.00974	.00030	.00007	-.00562	.01627	.00087	-.00032

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00043	.04754	-.00001	.00232	-.00021	.21115	-.01765
SDev	.00068	.00956	.00004	.00117	.00041	.05172	.00107
%RSD	158.83	20.108	491.89	50.226	201.54	24.495	6.0818
#1	-.00090	.05430	.00002	.00314	.00009	.24772	-.01689
#2	.00005	.04078	-.00004	.00150	-.00050	.17458	-.01841

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00018	-.03467	.04127	.00007	.00153	.00109	-.00014
SDev	.00014	.01324	.00775	.00000	.00432	.00126	.00002
%RSD	79.002	38.183	18.783	5.8098	282.49	116.05	12.584
#1	-.00027	-.02531	.04675	.00008	.00458	.00198	-.00012
#2	-.00008	-.04403	.03579	.00007	-.00152	.00020	-.00015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00049	.00049	.00096	.00092	.00017	-.00072
SDev	.00026	.00000	.00353	.00090	.00294	.00046
%RSD	53.820	.45665	368.65	97.915	1692.3	63.000
#1	.00067	.00049	.00345	.00156	-.00191	-.00040
#2	.00030	.00049	-.00154	.00028	.00225	-.00105

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36199	--	--	--	--	--	--
SDev	509.1169	--	--	--	--	--	--
%RSD	1.406439	--	--	--	--	--	--

#1	35839	--	--	--	--	--	--
#2	36559	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62038-b-2-d Operator: DCL
Run Time: 10/01/12 16:02:38
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	113.92	.01228	.15967	.08515	.00002	.00477	-.01117
SDev	.58	.00278	.00011	.00052	.00005	.00080	.00003
%RSD	.51139	22.661	.07035	.61504	306.25	16.775	.24091
#1	114.34	.01031	.15959	.08552	-.00002	.00421	-.01119
#2	113.51	.01425	.15975	.08478	.00006	.00534	-.01115

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.5906	.35494	.00361	.08207	530.66	.01635	.13299
SDev	.0049	.00129	.00039	.00042	1.98	.00009	.00035
%RSD	.30515	.36352	10.693	.51661	.37379	.57450	.26273
#1	1.5941	.35585	.00388	.08237	532.06	.01642	.13274
#2	1.5872	.35402	.00333	.08177	529.26	.01628	.13323

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02742	1.0316	.19805	.01920	.01562	1.2663	3.1090
SDev	.00127	.0074	.00084	.00068	.00101	.0071	.0137
%RSD	4.6189	.71558	.42139	3.5584	6.4445	.55786	.44073
#1	-.02652	1.0368	.19864	.01968	.01633	1.2713	3.1187

#2	-.02831	1.0264	.19746	.01871	.01491	1.2614	3.0993

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00288	-.79838	.26775	.01089	.00014	.04493	1.4756
SDev	.00028	.06390	.00333	.00001	.00071	.00044	.0069
%RSD	9.5435	8.0037	1.2447	.10898	502.39	.98430	.46712
#1	-.00269	-.84356	.27011	.01090	.00064	.04525	1.4805
#2	-.00308	-.75319	.26539	.01088	-.00036	.04462	1.4707

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1757	.07831	.11402	.14247	-.02421	-.02902
SDev	.0055	.00025	.00299	.00097	.00255	.00317
%RSD	.46419	.32344	2.6212	.68096	10.510	10.932
#1	1.1795	.07849	.11190	.14316	-.02601	-.02677
#2	1.1718	.07813	.11613	.14179	-.02242	-.03126

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35334	--	--	--	--	--	--
SDev	207.8894	--	--	--	--	--	--
%RSD	.5883551	--	--	--	--	--	--

#1	35187	--	--	--	--	--	--
#2	35481	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62038-b-3-b Operator: DCL
Run Time: 10/01/12 16:06:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	157.38	.01141	.14687	.23976	.00145	.00619	-.01160
SDev	.14	.00182	.00064	.00049	.00002	.00029	.00014
%RSD	.08985	15.923	.43234	.20657	1.0201	4.6633	1.1689
#1	157.28	.01012	.14642	.23941	.00144	.00639	-.01150
#2	157.48	.01269	.14732	.24011	.00146	.00599	-.01169

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.4318	.55518	.00725	.08563	542.68	.03815	.27528
SDev	.0042	.00049	.00001	.00004	.52	.00009	.00059
%RSD	.09556	.08887	.07003	.04303	.09566	.22827	.21323
#1	4.4288	.55483	.00725	.08565	542.31	.03809	.27487
#2	4.4348	.55553	.00725	.08560	543.05	.03821	.27570

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02422	2.1687	.38518	.02312	.03078	2.3439	3.2673
SDev	.00201	.0008	.00057	.00044	.00006	.0024	.0004
%RSD	8.2818	.03502	.14771	1.9086	.20642	.10241	.01361

#1	-.02280	2.1682	.38478	.02281	.03073	2.3456	3.2670
#2	-.02564	2.1693	.38559	.02343	.03082	2.3422	3.2676

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00438	-.82200	.23657	.03419	-.00032	.04743	1.4040
SDev	.00014	.01442	.00255	.00003	.00386	.00473	.0005
%RSD	3.1299	1.7544	1.0777	.09838	1224.7	9.9647	.03404

#1	-.00429	-.83220	.23837	.03416	.00242	.05077	1.4036
#2	-.00448	-.81180	.23476	.03421	-.00305	.04409	1.4043

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.3067	.10540	.22306	.30140	-.02212	-.02527	
SDev	.0004	.00050	.00122	.00027	.00573	.00014	
%RSD	.03035	.47462	.54712	.08967	25.893	.57307	

#1	1.3064	.10504	.22219	.30121	-.01807	-.02517	
#2	1.3070	.10575	.22392	.30159	-.02617	-.02537	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35839	--	--	--	--	--	--
SDev	29.69848	--	--	--	--	--	--
%RSD	.0828664	--	--	--	--	--	--

#1	35860	--	--	--	--	--	--
#2	35818	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62038-b-4-b Operator: DCL
Run Time: 10/01/12 16:10:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.448	.00409	.04656	2.0750	-.00024	.08475	.00108
SDev	.461	.00131	.00339	.0101	.00003	.00009	.00016
%RSD	.54575	32.143	7.2836	.48767	13.293	.10752	14.845

#1	84.122	.00316	.04416	2.0678	-.00022	.08482	.00120
#2	84.774	.00502	.04896	2.0821	-.00026	.08469	.00097

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	202.06	.15718	.01542	.08151	153.19	.03096	.38304
SDev	.81	.00084	.00039	.00047	.72	.00016	.00038
%RSD	.40166	.53442	2.5203	.57289	.46979	.51668	.09924

#1	201.49	.15658	.01515	.08118	152.68	.03085	.38278
#2	202.64	.15777	.01570	.08184	153.70	.03107	.38331

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00324	3.4144	3.1221	.01211	.03820	6.4757	3.3096

SDev	.00264	.0210	.0129	.00029	.00015	.0369	.0210
%RSD	81.462	.61405	.41378	2.3693	.38109	.56931	.63419
#1	-.00137	3.3996	3.1129	.01191	.03810	6.4496	3.2948
#2	-.00510	3.4292	3.1312	.01231	.03830	6.5017	3.3245

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00168	-.12945	.42758	1.2283	-.00941	.04199	.66244
SDev	.00010	.07784	.00304	.0056	.00200	.00026	.00238
%RSD	6.1030	60.134	.71098	.45623	21.230	.62493	.35862
#1	-.00175	-.18449	.42543	1.2243	-.00800	.04181	.66076
#2	-.00161	-.07441	.42973	1.2322	-.01083	.04218	.66412

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32777	.31869	.30705	.42104	.00419	-.00696
SDev	.00191	.00195	.00171	.00028	.00219	.00286
%RSD	.58260	.61300	.55556	.06715	52.149	41.174
#1	.32642	.31731	.30585	.42124	.00574	-.00493

#2	.32912	.32007	.30826	.42084	.00265	-.00898

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35343	--	--	--	--	--	--
SDev	185.2620	--	--	--	--	--	--
%RSD	.5241829	--	--	--	--	--	--
#1	35474	--	--	--	--	--	--
#2	35212	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62038-b-5-b Operator: DCL
Run Time: 10/01/12 16:14:12
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	246.41	.01488	.18053	.22119	.00128	.00566	-.01550
SDev	3.68	.00126	.00246	.00308	.00001	.00100	.00019
%RSD	1.4953	8.4580	1.3611	1.3922	.94611	17.666	1.2212
#1	243.80	.01399	.17879	.21902	.00127	.00496	-.01537
#2	249.01	.01577	.18227	.22337	.00129	.00637	-.01564

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.83860	.61481	.02495	.15325	716.50	.07897	.16399
SDev	.01157	.00874	.00026	.00217	10.97	.00122	.00322
%RSD	1.3791	1.4216	1.0586	1.4172	1.5307	1.5414	1.9624
#1	.83042	.60863	.02476	.15171	708.75	.07811	.16171
#2	.84677	.62099	.02514	.15478	724.26	.07983	.16626

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.03553	2.6461	.89670	.06272	.04623	3.8163	3.5110
SDev	.00130	.0476	.01245	.00185	.00128	.0849	.0564
%RSD	3.6550	1.8003	1.3884	2.9528	2.7726	2.2243	1.6060
#1	-.03461	2.6124	.88790	.06142	.04532	3.7562	3.4712
#2	-.03645	2.6797	.90550	.06403	.04713	3.8763	3.5509

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00375	-.58661	.43813	.01707	.00859	.05811	1.3274
SDev	.00037	.14216	.00946	.00024	.00200	.00042	.0180
%RSD	9.7347	24.234	2.1595	1.3917	23.307	.72922	1.3577
#1	-.00349	-.48609	.43144	.01690	.01001	.05841	1.3146
#2	-.00401	-.68713	.44482	.01724	.00718	.05781	1.3401

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4166	.14307	.13327	.17935	-.02829	-.03915

♀

SDev	.0191	.00228	.00302	.00332	.00192	.00099
%RSD	1.3460	1.5928	2.2639	1.8504	6.7703	2.5294
#1	1.4031	.14146	.13114	.17700	-.02694	-.03845
#2	1.4300	.14468	.13541	.18169	-.02964	-.03985

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34830	--	--	--	--	--	--
SDev	386.0803	--	--	--	--	--	--
%RSD	1.108471	--	--	--	--	--	--
#1	35103	--	--	--	--	--	--
#2	34557	--	--	--	--	--	--

♀

Method: 20076010 Sample Name: 600-61920-a-1-d@10 Operator: DCL
Run Time: 10/01/12 16:18:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.9976	-.05214	.00547	.02089	.00438	1.0985	-.01714
SDev	.0129	.00224	.00014	.00002	.00002	.0018	.00019
%RSD	.32146	4.3013	2.4605	.11011	.49830	.16768	1.0847
#1	3.9885	-.05373	.00538	.02091	.00436	1.0972	-.01727
#2	4.0067	-.05056	.00557	.02088	.00439	1.0998	-.01701

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.3627	19.378	10.153	.73782	600.23	.26760	.01163
SDev	.0041	.082	.029	.00248	1.12	.00066	.00028
%RSD	.30096	.42493	.28284	.33685	.18718	.24668	2.3661
#1	1.3598	19.320	10.133	.73606	599.44	.26714	.01144
#2	1.3656	19.436	10.173	.73957	601.03	.26807	.01183

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01720	.43653	2.6324	25.294	1.4055	1.0312	1.5867
SDev	.00009	.00471	.0066	.119	.0052	.0249	.0157
%RSD	.52900	1.0800	.25223	.46986	.37205	2.4155	.99062
#1	-.01726	.43320	2.6277	25.210	1.4018	1.0136	1.5756
#2	-.01713	.43986	2.6371	25.378	1.4092	1.0488	1.5978

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00041	1.5766	1.8378	.02540	.02105	.04613	.02765
SDev	.00058	.1552	.0055	.00010	.00253	.00028	.00002
%RSD	142.30	9.8453	.30116	.37335	12.021	.60118	.08101
#1	-.00082	1.4668	1.8339	.02533	.02284	.04632	.02766
#2	.00000	1.6863	1.8417	.02547	.01926	.04593	.02763

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.8255	.03648	.00837	.01326	-.01026	-.02067
SDev	.0194	.00006	.00189	.00136	.00344	.00186
%RSD	.28482	.15850	22.573	10.238	33.571	8.9879
#1	6.8118	.03652	.00971	.01230	-.00782	-.02198
#2	6.8393	.03644	.00704	.01422	-.01269	-.01936

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36756	--	--	--	--	--	--
SDev	223.4457	--	--	--	--	--	--
%RSD	.6079164	--	--	--	--	--	--

#1	36914	--	--	--	--	--	--
#2	36598	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62071-a-1-a Operator: DCL
Run Time: 10/01/12 16:22:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.7025	.23972	.54184	38.362	-.00150	.00958	.01168
SDev	.0073	.00045	.00236	.025	.00004	.00085	.00010
%RSD	.19791	.18719	.43568	.06543	2.5887	8.8637	.84715
#1	3.7077	.23940	.54350	38.380	-.00153	.01018	.01161
#2	3.6974	.24003	.54017	38.344	-.00147	.00898	.01175

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.944	.05607	.05582	10.793	55.598	.00558	1.1913
SDev	.013	.00037	.00026	.021	.043	.00000	.0036
%RSD	.03318	.65901	.46971	.19600	.07807	.00588	.30525

#1	38.935	.05633	.05600	10.808	55.567	.00558	1.1887
#2	38.953	.05581	.05563	10.778	55.629	.00558	1.1939

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00224	16.889	1.4242	.08744	.07259	1.6387	1.5187
SDev	.00070	.000	.0003	.02765	.00011	.0114	.0151
%RSD	31.453	.00038	.02054	31.620	.15616	.69379	.99672
#1	-.00174	16.889	1.4244	.10699	.07251	1.6306	1.5294
#2	-.00273	16.889	1.4240	.06789	.07267	1.6467	1.5080

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00401	.31139	.48292	S4.2932	-.00128	.03972	.06618
SDev	.00036	.02445	.00158	.0042	.00266	.00082	.00007
%RSD	8.9466	7.8532	.32798	.09684	207.49	2.0779	.10605
#1	.00375	.29410	.48180	S4.2961	-.00317	.03913	.06623
#2	.00426	.32868	.48404	S4.2902	.00060	.04030	.06613

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03222	.84407	.94573	1.3141	-.00454	-.00108
SDev	.00094	.00057	.00113	.0049	.00388	.00299
%RSD	2.9146	.06727	.11993	.37193	85.485	276.34
#1	.03288	.84447	.94493	1.3107	-.00728	.00103
#2	.03156	.84367	.94654	1.3176	-.00180	-.00320

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 04:26:09 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35180	--	--	--	--	--	--
SDev	39.59798	--	--	--	--	--	--
%RSD	.1125582	--	--	--	--	--	--
#1	35152	--	--	--	--	--	--
#2	35208	--	--	--	--	--	--

Analysis Report 10/01/12 04:30:18 PM page 1

Method: 20076010 Sample Name: 600-62071-a-2-a Operator: DCL
Run Time: 10/01/12 16:26:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	26.688	.05477	.10586	74.565	-.00010	.03145	.02951
SDev	.066	.00117	.00107	.112	.00000	.00001	.00019
%RSD	.24594	2.1350	1.0100	.14981	4.3841	.02446	.63512
#1	26.734	.05395	.10510	74.644	-.00010	.03146	.02937
#2	26.641	.05560	.10661	74.486	-.00011	.03145	.02964

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	146.19	.07027	.02524	1.0555	37.903	.01496	2.0906
SDev	.11	.00021	.00042	.0030	.026	.00003	.0041
%RSD	.07695	.29872	1.6475	.28251	.06915	.19446	.19487
#1	146.26	.07013	.02495	1.0576	37.922	.01498	2.0877
#2	146.11	.07042	.02553	1.0534	37.885	.01494	2.0935

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00145	3.9264	2.6152	.01831	.05759	7.8970	5.6458
SDev	.00185	.0049	.0029	.00234	.00058	.0230	.0182
%RSD	127.91	.12430	.11003	12.775	1.0064	.29168	.32279
#1	-.00014	3.9298	2.6172	.01996	.05800	7.9133	5.6587
#2	-.00275	3.9229	2.6132	.01665	.05718	7.8807	5.6329

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00953	.99846	1.0795	5.8399	-.00303	.02617	.27363
SDev	.00010	.05704	.0032	.0026	.00339	.00041	.00030
%RSD	1.0744	5.7127	.29657	.04369	111.74	1.5538	.11147
#1	.00946	1.0388	1.0818	5.8417	-.00543	.02589	.27385
#2	.00960	.95812	1.0773	5.8381	-.00064	.02646	.27342

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12945	4.2134	1.6571	2.3073	-.00147	-.00143
SDev	.00010	.0032	.0064	.0029	.00376	.00089
%RSD	.07334	.07580	.38829	.12541	254.96	62.463
#1	.12951	4.2157	1.6526	2.3053	.00118	-.00080
#2	.12938	4.2112	1.6617	2.3094	-.00413	-.00206

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38545	--	--	--	--	--	--
SDev	4.242641	--	--	--	--	--	--
%RSD	.0110070	--	--	--	--	--	--

#1	38542	--	--	--	--	--	--
#2	38548	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62071-a-3-a Operator: DCL
Run Time: 10/01/12 16:30:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.165	1.0455	1.9511	94.532	-.00008	.00346	.00975
SDev	.056	.0027	.0032	.444	.00006	.00046	.00023
%RSD	.32693	.25895	.16384	.46973	72.484	13.333	2.4130
#1	17.205	1.0436	1.9488	94.846	-.00012	.00378	.00991
#2	17.125	1.0474	1.9534	94.218	-.00004	.00313	.00958

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.470	.16578	.11496	1.7565	209.53	.01572	20.710
SDev	.027	.00019	.00021	.0074	.52	.00003	.044
%RSD	.20162	.11792	.18394	.42336	.24961	.16606	.21041
#1	13.489	.16592	.11511	1.7618	209.90	.01574	20.741
#2	13.451	.16565	.11481	1.7513	209.16	.01570	20.679

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02224	1.0982	19.407	.04702	.09097	2.2406	2.3181
SDev	.00144	.0010	.047	.00103	.00018	.0014	.0066
%RSD	6.4895	.08787	.24161	2.1986	.20148	.06226	.28650
#1	-.02122	1.0988	19.440	.04775	.09110	2.2397	2.3228
#2	-.02326	1.0975	19.373	.04629	.09084	2.2416	2.3134

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03311	.33565	.24151	5.2852	.00561	.03148	.13668
SDev	.00027	.07254	.00050	.0109	.00515	.00347	.00043
%RSD	.82446	21.613	.20751	.20707	91.831	11.018	.31560
#1	.03292	.28436	.24186	5.2929	.00197	.02903	.13698
#2	.03331	.38695	.24115	5.2775	.00925	.03393	.13637

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09717	4.1216	16.348	22.890	-.02980	-.01846
SDev	.00032	.0088	.050	.040	.00403	.00015
%RSD	.33374	.21249	.30544	.17648	13.522	.81309
#1	.09739	4.1278	16.384	22.919	-.02695	-.01836
#2	.09694	4.1154	16.313	22.862	-.03265	-.01857

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

♀

Analysis Report 10/01/12 04:34:09 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35566	--	--	--	--	--	--
SDev	92.63099	--	--	--	--	--	--
%RSD	.2604518	--	--	--	--	--	--
#1	35500	--	--	--	--	--	--
#2	35631	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-62071-a-4-a Operator: DCL
Run Time: 10/01/12 16:34:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3765	.20587	.33096	84.566	-.00161	.00794	.00161
SDev	.0114	.00064	.00142	.039	.00000	.00011	.00006
%RSD	.21208	.30921	.42770	.04615	.08133	1.3651	3.7444
#1	5.3684	.20632	.33196	84.539	-.00161	.00802	.00157

#2	5.3845	.20542	.32996	84.594	-.00161	.00786	.00166

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	32.867	.09735	.04016	2.3903	40.640	.00700	.76310
SDev	.074	.00014	.00038	.0009	.071	.00005	.00239
%RSD	.22539	.14074	.95360	.03602	.17422	.66416	.31309
#1	32.814	.09725	.03989	2.3897	40.590	.00697	.76141
#2	32.919	.09744	.04043	2.3909	40.690	.00703	.76479

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00102	14.912	2.4118	.01302	.03491	1.4350	1.7541
SDev	.00156	.034	.0056	.00074	.00019	.0234	.0000
%RSD	152.25	.22501	.23151	5.6928	.54013	1.6292	.00151
#1	.00008	14.888	2.4078	.01355	.03505	1.4185	1.7541
#2	-.00213	14.935	2.4157	.01250	.03478	1.4516	1.7540

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	.37019	.47870	3.8173	-.00379	.03597	.06732
SDev	.00000	.04443	.00134	.0058	.00113	.00065	.00023
%RSD	.20255	12.002	.28085	.15114	29.863	1.8076	.33723
#1	.00074	.40161	.47775	3.8132	-.00459	.03643	.06716
#2	.00074	.33878	.47965	3.8214	-.00299	.03551	.06748

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03956	.54869	.60793	.84068	-.00573	.00133
SDev	.00024	.00157	.00275	.00221	.00648	.00090
%RSD	.62053	.28580	.45202	.26286	113.15	67.937
#1	.03939	.54758	.60599	.83912	-.00115	.00069

♀

#2	.03973	.54980	.60988	.84224	-.01032	.00197

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35010	--	--	--	--	--	--
SDev	111.0158	--	--	--	--	--	--
%RSD	.3170928	--	--	--	--	--	--
#1	35089	--	--	--	--	--	--
#2	34932	--	--	--	--	--	--

♀

Method: 20076010 Sample Name: 600-62085-b-1-b Operator: DCL
Run Time: 10/01/12 16:38:21
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	164.16	.01328	.08752	2.6535	.01295	.02636	-.00364
SDev	1.13	.00176	.00082	.0173	.00013	.00016	.00013

%RSD	.68865	13.220	.93661	.65202	1.0187	.60444	3.5540
#1	164.96	.01452	.08694	2.6657	.01304	.02624	-.00355
#2	163.36	.01203	.08810	2.6412	.01286	.02647	-.00373

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.652	.13869	.17791	.14136	203.83	.15975	.23542
SDev	.267	.00067	.00122	.00133	1.37	.00083	.00172
%RSD	.67261	.47915	.68590	.94187	.67354	.51986	.72961
#1	39.841	.13916	.17877	.14231	204.80	.16033	.23663
#2	39.464	.13822	.17705	.14042	202.86	.15916	.23420

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01663	48.461	2.5764	.00863	.32512	21.637	3.1976
SDev	.00299	.332	.0172	.00034	.00196	.111	.0157
%RSD	17.958	.68535	.66678	3.8888	.60181	.51104	.49164
#1	-.01452	48.695	2.5885	.00887	.32651	21.715	3.2087
#2	-.01874	48.226	2.5642	.00840	.32374	21.559	3.1864

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00343	13.640	14.896	.53373	.00358	.03054	.27998
SDev	.00008	.159	.073	.00282	.00336	.00082	.00178
%RSD	2.4113	1.1648	.49202	.52821	93.785	2.6982	.63612
#1	-.00337	13.753	14.948	.53572	.00121	.03112	.28124
#2	-.00349	13.528	14.844	.53173	.00596	.02996	.27872

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48150	.37261	.18602	.26012	-.00685	-.02152
SDev	.00328	.00257	.00096	.00210	.00084	.00406
%RSD	.68014	.69071	.51363	.80683	12.298	18.859
#1	.48382	.37443	.18669	.26160	-.00625	-.01865
#2	.47919	.37079	.18534	.25864	-.00744	-.02439

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39322	--	--	--	--	--	--
SDev	197.2828	--	--	--	--	--	--
%RSD	.5017174	--	--	--	--	--	--

Analysis Report 10/01/12 04:42:09 PM page 2

#1	39182	--	--	--	--	--	--
#2	39461	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00001 Operator: DCL
Run Time: 10/01/12 16:42:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	2.4282	.53242	.50587	.51971	.41871	.51661	.53582
SDev	.0025	.00026	.00172	.00165	.00162	.00061	.00210
%RSD	.10357	.04939	.33928	.31700	.38590	.11767	.39254
#1	2.4300	.53260	.50466	.52087	.41985	.51704	.53731
#2	2.4264	.53223	.50708	.51854	.41757	.51618	.53433

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.765	.44403	.44251	.42662	2.4550	.49098	.49892
SDev	.046	.00192	.00220	.00146	.0025	.00125	.00074
%RSD	.39126	.43151	.49742	.34251	.10107	.25468	.14781
#1	11.797	.44538	.44406	.42766	2.4568	.49186	.49944
#2	11.732	.44267	.44095	.42559	2.4533	.49009	.49840

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49546	4.5216	.45935	.50176	.55181	13.269	.86808
SDev	.00329	.0190	.00162	.00309	.00404	.030	.00681
%RSD	.66434	.42027	.35305	.61633	.73175	.22555	.78477
#1	.49313	4.5351	.46050	.50395	.55466	13.290	.87289
#2	.49779	4.5082	.45820	.49957	.54895	13.248	.86326

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23698	12.230	12.882	.25578	.56211	.47269	.48108
SDev	.00124	.079	.036	.00077	.00035	.00098	.00176
%RSD	.52169	.64688	.27790	.30166	.06214	.20681	.36677
#1	.23786	12.174	12.907	.25632	.56236	.47338	.48233
#2	.23611	12.286	12.857	.25523	.56187	.47199	.47983

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45450	.51937	.39275	.55201	.40306	.54171
SDev	.00129	.00147	.00246	.00012	.00548	.00219
%RSD	.28469	.28219	.62570	.02220	1.3605	.40527
#1	.45542	.52041	.39449	.55192	.39918	.54016
#2	.45359	.51833	.39101	.55209	.40694	.54327

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/01/12 04:46:01 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35280	--	--	--	--	--	--
SDev	9.192388	--	--	--	--	--	--
%RSD	.0260559	--	--	--	--	--	--
#1	35273	--	--	--	--	--	--
#2	35286	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/01/12 16:46:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

A100112

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17551	.00340	.00060	.00017	-.00200	.00121	-.00004
SDev	.00074	.00081	.00095	.00013	.00002	.00090	.00013
%RSD	.42393	23.842	158.13	77.302	.88196	74.334	286.65
#1	.17604	.00397	.00127	.00008	-.00201	.00184	-.00013
#2	.17499	.00282	-.00007	.00026	-.00199	.00057	.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01266	.00012	-.00021	-.00645	-.00147	.00070	.00179
SDev	.00000	.00050	.00020	.00002	.00196	.00002	.00088
%RSD	.01596	430.34	93.063	.36746	133.98	3.0972	48.847
#1	-.01265	.00047	-.00007	-.00647	-.00285	.00069	.00241
#2	-.01266	-.00024	-.00035	-.00644	-.00008	.00072	.00117

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.05093	.00006	.00229	-.00088	.23673	-.01462
SDev	.00081	.00056	.00002	.00060	.00016	.00200	.00349
%RSD	4988.1	1.0931	31.740	26.343	17.996	.84467	23.862
#1	.00059	.05053	.00007	.00272	-.00077	.23814	-.01215
#2	-.00056	.05132	.00005	.00187	-.00099	.23532	-.01708

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00037	-.07837	.01905	.00007	-.00376	.00105	-.00034
SDev	.00027	.05694	.00143	.00001	.00011	.00007	.00012
%RSD	72.639	72.661	7.4871	17.587	2.8097	6.3883	34.875
#1	-.00056	-.03810	.02005	.00008	-.00383	.00109	-.00026
#2	-.00018	-.11863	.01804	.00006	-.00368	.00100	-.00043

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00070	.00253	.00143	.00219	-.00107
SDev	.00032	.00019	.00052	.00157	.00113	.00066
%RSD	90.434	27.107	20.446	110.16	51.546	61.502
#1	.00058	.00057	.00216	.00254	.00299	-.00060
#2	.00013	.00083	.00289	.00032	.00139	-.00154

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35790	--	--	--	--	--	--
SDev	2.121320	--	--	--	--	--	--
%RSD	.0059272	--	--	--	--	--	--
#1	35788	--	--	--	--	--	--
#2	35791	--	--	--	--	--	--

Analysis Report 10/01/12 04:49:52 PM page 4

Method: 20076010 Sample Name: ICSA metisa_00078 Operator: DCL
Run Time: 10/01/12 16:49:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Page 118

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	442.04	.00638	-.00184	.00212	-.00284	.00281	-.00293
SDev	1.22	.00126	.00221	.00001	.00005	.00011	.00023
%RSD	.27606	19.700	119.64	.58449	1.8449	3.8451	7.8536
#1	442.91	.00727	-.00340	.00211	-.00288	.00289	-.00276
#2	441.18	.00549	-.00028	.00213	-.00280	.00274	-.00309

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	437.13	.00141	-.00056	.00711	197.09	.00563	.01127
SDev	1.34	.00030	.00007	.00009	.63	.00005	.00181
%RSD	.30750	21.454	12.413	1.2043	.32138	.80989	16.102
#1	438.08	.00120	-.00061	.00705	197.54	.00566	.01256
#2	436.18	.00162	-.00051	.00717	196.64	.00559	.00999

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02291	473.61	-.00650	.00010	.00017	.44684	.00028
SDev	.00387	1.13	.00003	.00207	.00044	.00692	.00113
%RSD	16.874	.23917	.47356	2156.3	266.07	1.5496	397.93
#1	-.02564	474.41	-.00648	.00156	-.00015	.45174	.00108
#2	-.02018	472.81	-.00653	-.00137	.00048	.44195	-.00052

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00064	-.08208	.19956	-.00820	.01000	-.00070	-.00336
SDev	.00026	.00642	.00091	.00003	.00227	.00096	.00001
%RSD	40.256	7.8242	.45801	.40695	22.639	137.44	.35530
#1	-.00082	-.07754	.20020	-.00822	.01161	-.00002	-.00336
#2	-.00046	-.08663	.19891	-.00817	.00840	-.00138	-.00337

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00659	-.00297	.00665	.01359	-.00879	-.02997

SDev	.00025	.00005	.00430	.00057	.00262	.00449
%RSD	3.7523	1.8052	64.747	4.2065	29.841	14.972
#1	.00641	-.00294	.00969	.01399	-.01065	-.03314
#2	.00676	-.00301	.00360	.01318	-.00694	-.02680

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31298	--	--	--	--	--	--
SDev	101.1163	--	--	--	--	--	--
%RSD	.3230707	--	--	--	--	--	--
#1	31227	--	--	--	--	--	--
#2	31370	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb_00080 Operator: DCL
Run Time: 10/01/12 16:53:46
Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	447.52	1.1493	1.0901	1.1284	.43084	1.1234	.52824
SDev	.08	.0033	.0024	.0011	.00005	.0030	.00042
%RSD	.01869	.28390	.21949	.10136	.01157	.26482	.07928
#1	447.46	1.1470	1.0884	1.1276	.43081	1.1213	.52853
#2	447.58	1.1516	1.0918	1.1292	.43088	1.1255	.52794

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	440.56	.90374	.88084	.97811	205.36	1.3394	1.0261
SDev	.45	.00036	.00006	.00141	.04	.0035	.0030
%RSD	.10301	.04038	.00738	.14390	.02157	.25992	.28794
#1	440.88	.90400	.88089	.97711	205.40	1.3370	1.0282
#2	440.24	.90349	.88080	.97910	205.33	1.3419	1.0240

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0257	479.32	.93724	1.0285	1.0782	15.985	.95574
SDev	.0011	.25	.00006	.0030	.0010	.007	.00151
%RSD	.10881	.05150	.00659	.28835	.09166	.04368	.15752
#1	1.0249	479.49	.93728	1.0264	1.0775	15.980	.95467
#2	1.0264	479.14	.93719	1.0306	1.0789	15.990	.95680

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53942	11.747	14.486	.53716	1.1432	.98216	1.0019
SDev	.00010	.017	.007	.00064	.0031	.00192	.0007
%RSD	.01794	.14714	.04963	.11957	.27125	.19517	.07468
#1	.53935	11.735	14.481	.53671	1.1454	.98080	1.0014
#2	.53949	11.760	14.491	.53762	1.1410	.98351	1.0025

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93414	1.0924	.80972	1.1343	.84602	1.1155
SDev	.00005	.0009	.00331	.0028	.00279	.0003
%RSD	.00535	.07943	.40838	.24495	.32920	.02523
#1	.93417	1.0930	.81206	1.1363	.84405	1.1153
#2	.93410	1.0918	.80738	1.1324	.84798	1.1157

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31352	--	--	--	--	--	--
SDev	75.66042	--	--	--	--	--	--
%RSD	.2413295	--	--	--	--	--	--
#1	31298	--	--	--	--	--	--
#2	31405	--	--	--	--	--	--

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Batch Number: 89798 Batch Start Date: 09/28/12 10:05 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	METH202 00023	METHCL 00042	METHNO3 00032
MB 600-89798/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
LCS 600-89798/2		3050B, 6010B		CALC NOT SET TO RUN	0.50 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-B-1	2012-FWFS-5 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-B-2	2012-FWFS-5 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.04 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-A-3	2012-FWFS-4 (Floor)	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-A-4	2012-FWFS-4 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-A-4 DU	2012-FWFS-4 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-A-4 MS	2012-FWFS-4 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.08 g	50 mL	4 mL	2.5 mL	5 mL
600-61851-A-4 MSD	2012-FWFS-4 (Wall)	3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL	4 mL	2.5 mL	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSLCSS 00017	METSPIKEA 00012	METSPIKEB 00013			
MB 600-89798/1		3050B, 6010B							
LCS 600-89798/2		3050B, 6010B		0.5 g					
600-61851-B-1	2012-FWFS-5 (Floor)	3050B, 6010B	T						
600-61851-B-2	2012-FWFS-5 (Wall)	3050B, 6010B	T						
600-61851-A-3	2012-FWFS-4 (Floor)	3050B, 6010B	T						
600-61851-A-4	2012-FWFS-4 (Wall)	3050B, 6010B	T						
600-61851-A-4 DU	2012-FWFS-4 (Wall)	3050B, 6010B	T						
600-61851-A-4 MS	2012-FWFS-4 (Wall)	3050B, 6010B	T		250 uL	250 uL			
600-61851-A-4 MSD	2012-FWFS-4 (Wall)	3050B, 6010B	T		250 uL	250 uL			

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Batch Number: 89798 Batch Start Date: 09/28/12 10:05 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Batch Notes	
Balance ID	B-6
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95 Degrees C
ID number of the thermometer	517

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-5 (Floor)	600-61851-1
2012-FWFS-5 (Wall)	600-61851-2
2012-FWFS-4 (Floor)	600-61851-3
2012-FWFS-4 (Wall)	600-61851-4

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-61851-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 09/05/2005 11:35

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston   Job No.: 600-61851-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 09/25/2012 11:56   End Date: 09/25/2012 15:54

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Analytes: Moist
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
600-61851-1	1	T	11:56	X	X
600-61851-2	1	T	11:56	X	X
600-61851-3	1	T	11:56	X	X
600-61851-4	1	T	11:56	X	X
600-61851-4 DU	1	T	11:56	X	X
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			11:56		
ZZZZZZ			12:08		
MB 600-89452/19	1	T	12:08	X	X
ZZZZZZ			15:38		
ZZZZZZ			15:38		
ZZZZZZ			15:38		
ZZZZZZ			15:54		
ZZZZZZ			15:54		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Batch Number: 89452 Batch Start Date: 09/25/12 11:56 Batch Analyst: Daniel, Kevin R

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	Dish&sample	FinalAmount	Weight1	Weight2	Weight3
600-61851-A-1	2012-FWFS-5 (Floor)	Moisture	T	1.16 g	12.97 g	11.81 g	9.97 g	9.97 g	0 g
600-61851-A-2	2012-FWFS-5 (Wall)	Moisture	T	1.16 g	7.84 g	6.68 g	6.36 g	6.37 g	0 g
600-61851-B-3	2012-FWFS-4 (Floor)	Moisture	T	1.16 g	10.33 g	9.17 g	8.12 g	8.12 g	0 g
600-61851-B-4	2012-FWFS-4 (Wall)	Moisture	T	1.16 g	7.34 g	6.18 g	6.18 g	6.18 g	0 g
600-61851-B-4 DU	2012-FWFS-4 (Wall)	Moisture	T	1.16 g	8.38 g	7.22 g	6.99 g	6.99 g	0 g
MB 600-89452/19		Moisture		3.09 g	24.05 g	20.96 g	3.07 g	3.07 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	CalcMsg				
600-61851-A-1	2012-FWFS-5 (Floor)	Moisture	T	9.97 g	Vol. & Fixed solids not calculated. Wt550C is missing				
600-61851-A-2	2012-FWFS-5 (Wall)	Moisture	T	6.37 g	Vol. & Fixed solids not calculated. Wt550C is missing				
600-61851-B-3	2012-FWFS-4 (Floor)	Moisture	T	8.12 g	Vol. & Fixed solids not calculated. Wt550C is missing				
600-61851-B-4	2012-FWFS-4 (Wall)	Moisture	T	6.18 g	Vol. & Fixed solids not calculated. Wt550C is missing				
600-61851-B-4 DU	2012-FWFS-4 (Wall)	Moisture	T	6.99 g	Vol. & Fixed solids not calculated. Wt550C is missing				
MB 600-89452/19		Moisture		3.07 g	Vol. & Fixed solids not calculated. Wt550C is missing				

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-61851-1

SDG No.:

Batch Number: 89452 Batch Start Date: 09/25/12 11:56 Batch Analyst: Daniel, Kevin R

Batch Method: Moisture Batch End Date:

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1

Basis	Basis Description
T	Total/NA

6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/16/2012

Client Information	Sampler: R.McClure	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-9060.1
Client Contact: ~~Mr. Tim Nickels~~ Eric Pastor	Phone: (512)671-3434	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page of
Company: Pastor, Behling & Wheeler LLC				Job #:
Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:			
City: Round Rock	TAT Requested (days):			
State, Zip: TX, 78664				
Phone: 512-671-3434(Tel) 512-671-3446(Fax)	PO #: 17855			
Email: ~~tim.nickels@pbwllc.com~~ eric.pastor@pbwllc.com	WO #:			
Project Name: ~~PBW~~ Exide Recyling Center	Project #: 60002002			
Site: ~~San Antonio~~ Frisco	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cd and Pb- 6010B	TPH- TX1005	Pb: 6010B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
2012-FWFS-5(Floor)	9/24/12	1040	G	soil			X	X			Hold TX1006
2012-FWFS-5(Wall)	9/24/12	1049	↓	soil			↓	↓			↓
2012-FWFS-4(Floor)	9/24/12	1057		soil							
2012-FWFS-4(Wall)	9/24/12	1102		soil							
				soil							
				soil							
				soil							
				soil							
				soil							
				soil							
				soil							
				soil							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV Validation

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert McClure	9/24/12, 1227	PBW			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-61851-1

Login Number: 61851

List Source: TestAmerica Houston

List Number: 1

Creator: Capps, Dana

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-63252-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
11/7/2012 7:04:08 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 12
Method Summary 13
Sample Summary 14
Client Sample Results 15
Definitions/Glossary 18
Surrogate Summary 19
QC Sample Results 20
Default Detection Limits 21
QC Association Summary 22
Lab Chronicle 24
Certification Summary 26
Raw Data 27
Chain of Custody 326
Receipt Checklists 327

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-63252-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		11/07/2012
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 11/5/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252
Reviewer Name: TWR	Prep Batch Number(s): 600-91839- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 11/5/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252
Reviewer Name: TWR	Prep Batch Number(s): 600-91839- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 11/5/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252
Reviewer Name: TWR	Prep Batch Number(s): 600-91839- ICP

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected another client's sample to perform as the MS/MSD.
3	The laboratory selected another client's sample to perform as the DUP.
4	The lead SDLs were elevated in samples 63252-5 and 6 due to the dilution necessary to bring this analyte to within linear dynamic range.
5	The laboratory selected another client's sample to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 10/25/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252-1
Reviewer Name: RJV	Prep Batch Number(s): 600- 91862 - TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 10/25/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252-1
Reviewer Name: RJV	Prep Batch Number(s): 600- 91862 - TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 10/25/12
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-63252-1
Reviewer Name: RJV	Prep Batch Number(s): 600- 91862 - TX1005

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	7/11/2012
Date Prepared:	7/11/2012
Data File:	600-83523/17-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	20	25	5
>C12-C28	4.06	20	19.17	5
Total C6-C35	7.48	40	44.17	5

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	9/27/2012
Date Prepared:	9/26/2012
Instrument:	Thermo 6500
TALS Batches:	89675, 89637p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.655	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.505	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.685	20
Cadmium	0.025642	0.05	0.05	0.25
Calcium	0.86399	1.5	3.185	100
Chromium	0.050606	0.1	0.095	0.5
Cobalt	0.067622	0.1	0.095	0.5
Copper	0.173703	0.5	0.55	0.5
Iron	2.534007	4	4.105	20
Lead	0.104832	0.2	0.27	0.5
Selenium	0.258884	0.5	0.595	2
Manganese	0.038111	0.05	0.055	1.5
Molybdenum	0.136448	0.35	0.36	0.5
Nickel	0.116599	0.15	0.155	1
Silver	0.118848	0.2	0.165	0.5
Sodium	0.885548	2.4	2.045	100
Strontium	0.00252	0.005	0.97	0.25
Thallium	0.276988	0.7	0.835	1.5
Tin	0.08729	0.15	0.17	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.145	0.5
Zinc	0.108432	0.2	0.34	1.5

Job ID: 600-63252-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-63252-1

Comments
No additional comments.

Receipt
The samples were received on 10/23/2012 9:46 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.4° C.

Except:

The samples were received at the laboratory outside the required temperature criteria.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Method	Method Description	Protocol	Laboratory
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-63252-1	2012-FWFS-3-Wall	Solid	10/22/12 10:10	10/23/12 09:46
600-63252-2	2012-FWFS-3-Floor	Solid	10/22/12 10:19	10/23/12 09:46
600-63252-3	2012-FWFS-2-Wall	Solid	10/22/12 10:24	10/23/12 09:46
600-63252-4	2012-FWFS-2-Floor	Solid	10/22/12 10:35	10/23/12 09:46
600-63252-5	2012-FWFS-1-Floor	Solid	10/22/12 10:48	10/23/12 09:46
600-63252-6	2012-FWFS-1-Wall	Solid	10/22/12 10:52	10/23/12 09:46

Client Sample ID: 2012-FWFS-3-Wall

Lab Sample ID: 600-63252-1

Date Collected: 10/22/12 10:10
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 78.2

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.84	U	31.8	4.84	mg/Kg	☼	10/24/12 14:48	10/24/12 18:35	1
>C12-C28	5.17	U	31.8	5.17	mg/Kg	☼	10/24/12 14:48	10/24/12 18:35	1
>C28-C35	5.17	U	31.8	5.17	mg/Kg	☼	10/24/12 14:48	10/24/12 18:35	1
C6-C35	9.53	U	31.8	9.53	mg/Kg	☼	10/24/12 14:48	10/24/12 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*70 - 130*	*10/24/12 14:48*	*10/24/12 18:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.264**	**J**	0.317	0.0325	mg/Kg	☼	10/24/12 12:17	10/25/12 10:04	1
Lead	**32.2**		0.633	0.133	mg/Kg	☼	10/24/12 12:17	10/25/12 10:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22**		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	**78**		1.0	1.0	%			10/24/12 15:25	1

Client Sample ID: 2012-FWFS-3-Floor

Lab Sample ID: 600-63252-2

Date Collected: 10/22/12 10:19
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 75.1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.06	U	33.3	5.06	mg/Kg	☼	10/24/12 14:48	10/24/12 19:09	1
>C12-C28	5.40	U	33.3	5.40	mg/Kg	☼	10/24/12 14:48	10/24/12 19:09	1
>C28-C35	5.40	U	33.3	5.40	mg/Kg	☼	10/24/12 14:48	10/24/12 19:09	1
C6-C35	9.95	U	33.3	9.95	mg/Kg	☼	10/24/12 14:48	10/24/12 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*70 - 130*	*10/24/12 14:48*	*10/24/12 19:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.266**	**J**	0.317	0.0325	mg/Kg	☼	10/24/12 12:17	10/25/12 10:07	1
Lead	**32.5**		0.634	0.133	mg/Kg	☼	10/24/12 12:17	10/25/12 10:07	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25**		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	**75**		1.0	1.0	%			10/24/12 15:25	1

Client Sample ID: 2012-FWFS-2-Wall

Lab Sample ID: 600-63252-3

Date Collected: 10/22/12 10:24
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 79.6

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.75	U	31.2	4.75	mg/Kg	☼	10/24/12 14:48	10/24/12 19:43	1
>C12-C28	5.07	U	31.2	5.07	mg/Kg	☼	10/24/12 14:48	10/24/12 19:43	1
>C28-C35	5.07	U	31.2	5.07	mg/Kg	☼	10/24/12 14:48	10/24/12 19:43	1
C6-C35	9.35	U	31.2	9.35	mg/Kg	☼	10/24/12 14:48	10/24/12 19:43	1

Client Sample ID: 2012-FWFS-2-Wall
Lab Sample ID: 600-63252-3

Date Collected: 10/22/12 10:24
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 79.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*70 - 130*	*10/24/12 14:48*	*10/24/12 19:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.268	J	0.296	0.0304	mg/Kg	☼	10/24/12 12:17	10/25/12 10:11	1
Lead	12.5		0.592	0.124	mg/Kg	☼	10/24/12 12:17	10/25/12 10:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	80		1.0	1.0	%			10/24/12 15:25	1

Client Sample ID: 2012-FWFS-2-Floor
Lab Sample ID: 600-63252-4

Date Collected: 10/22/12 10:35
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 74.9

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.06	U	33.3	5.06	mg/Kg	☼	10/24/12 14:48	10/24/12 20:17	1
>C12-C28	5.40	U	33.3	5.40	mg/Kg	☼	10/24/12 14:48	10/24/12 20:17	1
>C28-C35	5.40	U	33.3	5.40	mg/Kg	☼	10/24/12 14:48	10/24/12 20:17	1
C6-C35	9.95	U	33.3	9.95	mg/Kg	☼	10/24/12 14:48	10/24/12 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*70 - 130*	*10/24/12 14:48*	*10/24/12 20:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.106	J	0.334	0.0343	mg/Kg	☼	10/24/12 12:17	10/25/12 10:15	1
Lead	17.5		0.668	0.140	mg/Kg	☼	10/24/12 12:17	10/25/12 10:15	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	75		1.0	1.0	%			10/24/12 15:25	1

Client Sample ID: 2012-FWFS-1-Floor
Lab Sample ID: 600-63252-5

Date Collected: 10/22/12 10:48
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 93.9

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.02	U	26.5	4.02	mg/Kg	☼	10/24/12 14:48	10/24/12 20:51	1
>C12-C28	4.30	U	26.5	4.30	mg/Kg	☼	10/24/12 14:48	10/24/12 20:51	1
>C28-C35	4.30	U	26.5	4.30	mg/Kg	☼	10/24/12 14:48	10/24/12 20:51	1
C6-C35	7.92	U	26.5	7.92	mg/Kg	☼	10/24/12 14:48	10/24/12 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*70 - 130*	*10/24/12 14:48*	*10/24/12 20:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	143		0.247	0.0253	mg/Kg	☼	10/24/12 12:17	10/25/12 10:19	1

Client Sample ID: 2012-FWFS-1-Floor
Lab Sample ID: 600-63252-5

Date Collected: 10/22/12 10:48
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 93.9

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4410		4.93	1.03	mg/Kg	☼	10/24/12 12:17	10/25/12 12:06	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.1		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	94		1.0	1.0	%			10/24/12 15:25	1

Client Sample ID: 2012-FWFS-1-Wall
Lab Sample ID: 600-63252-6

Date Collected: 10/22/12 10:52
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 76.1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.97	U	32.7	4.97	mg/Kg	☼	10/24/12 14:48	10/24/12 21:25	1
>C12-C28	5.31	U	32.7	5.31	mg/Kg	☼	10/24/12 14:48	10/24/12 21:25	1
>C28-C35	5.31	U	32.7	5.31	mg/Kg	☼	10/24/12 14:48	10/24/12 21:25	1
C6-C35	9.79	U	32.7	9.79	mg/Kg	☼	10/24/12 14:48	10/24/12 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*70 - 130*	*10/24/12 14:48*	*10/24/12 21:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.65		0.310	0.0318	mg/Kg	☼	10/24/12 12:17	10/25/12 10:23	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22900		6.20	1.30	mg/Kg	☼	10/24/12 12:17	10/25/12 12:08	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			10/24/12 15:25	1
Percent Solids	76		1.0	1.0	%			10/24/12 15:25	1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	OTPH (70-130)								
600-63252-1	2012-FWFS-3-Wall	83								
600-63252-2	2012-FWFS-3-Floor	81								
600-63252-3	2012-FWFS-2-Wall	82								
600-63252-4	2012-FWFS-2-Floor	84								
600-63252-5	2012-FWFS-1-Floor	87								
600-63252-6	2012-FWFS-1-Wall	88								
LCS 600-91862/2-A	Lab Control Sample	108								
MB 600-91862/1-A	Method Blank	89								

Surrogate Legend

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-91862/1-A
Matrix: Solid
Analysis Batch: 91897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91862

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	25.0	3.80	mg/Kg		10/24/12 14:48	10/24/12 17:26	1
>C12-C28	4.06	U	25.0	4.06	mg/Kg		10/24/12 14:48	10/24/12 17:26	1
>C28-C35	4.06	U	25.0	4.06	mg/Kg		10/24/12 14:48	10/24/12 17:26	1
C6-C35	7.48	U	25.0	7.48	mg/Kg		10/24/12 14:48	10/24/12 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*70 - 130*	*10/24/12 14:48*	*10/24/12 17:26*	*1*

Lab Sample ID: LCS 600-91862/2-A
Matrix: Solid
Analysis Batch: 91897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12			250	264.1		mg/Kg		106	75 - 125		
>C12-C28			250	247.1		mg/Kg		99	75 - 125		
C6-C35			500	511.2		mg/Kg		102	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*108*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-91839/1-A
Matrix: Solid
Analysis Batch: 91914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91839

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		10/24/12 12:17	10/25/12 09:13	1
Lead	0.105	U	0.500	0.105	mg/Kg		10/24/12 12:17	10/25/12 09:13	1

Lab Sample ID: LCSSRM 600-91839/2-B
Matrix: Solid
Analysis Batch: 91914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91839

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	105.8		mg/Kg		102.7	83.6 - 115.5		
Lead			76.9	78.14		mg/Kg		101.6	81.3 - 118.7		

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	25.0	4.06	mg/Kg	TX 1005
>C28-C35	25.0	4.06	mg/Kg	TX 1005
C6-C12	25.0	3.80	mg/Kg	TX 1005
C6-C35	25.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC Semi VOA

Prep Batch: 91862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-1	2012-FWFS-3-Wall	Total/NA	Solid	TX_1005_S_Prep	
600-63252-2	2012-FWFS-3-Floor	Total/NA	Solid	TX_1005_S_Prep	
600-63252-3	2012-FWFS-2-Wall	Total/NA	Solid	TX_1005_S_Prep	
600-63252-4	2012-FWFS-2-Floor	Total/NA	Solid	TX_1005_S_Prep	
600-63252-5	2012-FWFS-1-Floor	Total/NA	Solid	TX_1005_S_Prep	
600-63252-6	2012-FWFS-1-Wall	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-91862/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-91862/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 91897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-1	2012-FWFS-3-Wall	Total/NA	Solid	TX 1005	91862
600-63252-2	2012-FWFS-3-Floor	Total/NA	Solid	TX 1005	91862
600-63252-3	2012-FWFS-2-Wall	Total/NA	Solid	TX 1005	91862
600-63252-4	2012-FWFS-2-Floor	Total/NA	Solid	TX 1005	91862
600-63252-5	2012-FWFS-1-Floor	Total/NA	Solid	TX 1005	91862
600-63252-6	2012-FWFS-1-Wall	Total/NA	Solid	TX 1005	91862
LCS 600-91862/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	91862
MB 600-91862/1-A	Method Blank	Total/NA	Solid	TX 1005	91862

Metals

Prep Batch: 91839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-1	2012-FWFS-3-Wall	Total/NA	Solid	3050B	
600-63252-2	2012-FWFS-3-Floor	Total/NA	Solid	3050B	
600-63252-3	2012-FWFS-2-Wall	Total/NA	Solid	3050B	
600-63252-4	2012-FWFS-2-Floor	Total/NA	Solid	3050B	
600-63252-5 - DL	2012-FWFS-1-Floor	Total/NA	Solid	3050B	
600-63252-5	2012-FWFS-1-Floor	Total/NA	Solid	3050B	
600-63252-6 - DL	2012-FWFS-1-Wall	Total/NA	Solid	3050B	
600-63252-6	2012-FWFS-1-Wall	Total/NA	Solid	3050B	
LCSSRM 600-91839/2-B	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-91839/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 91911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-5 - DL	2012-FWFS-1-Floor	Total/NA	Solid	6010B	91839
600-63252-6 - DL	2012-FWFS-1-Wall	Total/NA	Solid	6010B	91839

Analysis Batch: 91914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-1	2012-FWFS-3-Wall	Total/NA	Solid	6010B	91839
600-63252-2	2012-FWFS-3-Floor	Total/NA	Solid	6010B	91839
600-63252-3	2012-FWFS-2-Wall	Total/NA	Solid	6010B	91839
600-63252-4	2012-FWFS-2-Floor	Total/NA	Solid	6010B	91839

Metals (Continued)

Analysis Batch: 91914 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-5	2012-FWFS-1-Floor	Total/NA	Solid	6010B	91839
600-63252-6	2012-FWFS-1-Wall	Total/NA	Solid	6010B	91839
LCSSRM 600-91839/2-B	Lab Control Sample	Total/NA	Solid	6010B	91839
MB 600-91839/1-A	Method Blank	Total/NA	Solid	6010B	91839

General Chemistry

Analysis Batch: 91866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-63252-1	2012-FWFS-3-Wall	Total/NA	Solid	Moisture	
600-63252-2	2012-FWFS-3-Floor	Total/NA	Solid	Moisture	
600-63252-3	2012-FWFS-2-Wall	Total/NA	Solid	Moisture	
600-63252-4	2012-FWFS-2-Floor	Total/NA	Solid	Moisture	
600-63252-5	2012-FWFS-1-Floor	Total/NA	Solid	Moisture	
600-63252-6	2012-FWFS-1-Wall	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Client Sample ID: 2012-FWFS-3-Wall

Lab Sample ID: 600-63252-1

Date Collected: 10/22/12 10:10
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 18:35	RV	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Client Sample ID: 2012-FWFS-3-Floor

Lab Sample ID: 600-63252-2

Date Collected: 10/22/12 10:19
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 19:09	RV	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:07	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Client Sample ID: 2012-FWFS-2-Wall

Lab Sample ID: 600-63252-3

Date Collected: 10/22/12 10:24
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 19:43	RV	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Client Sample ID: 2012-FWFS-2-Floor

Lab Sample ID: 600-63252-4

Date Collected: 10/22/12 10:35
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 20:17	RV	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:15	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-63252-1

Client Sample ID: 2012-FWFS-1-Floor

Lab Sample ID: 600-63252-5

Date Collected: 10/22/12 10:48
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 20:51	RV	TAL HOU
Total/NA	Prep	3050B	DL		91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	91911	10/25/12 12:06	DCL	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Client Sample ID: 2012-FWFS-1-Wall

Lab Sample ID: 600-63252-6

Date Collected: 10/22/12 10:52
Matrix: Solid
Date Received: 10/23/12 09:46
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			91862	10/24/12 14:48	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	91897	10/24/12 21:25	RV	TAL HOU
Total/NA	Prep	3050B	DL		91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	91911	10/25/12 12:08	DCL	TAL HOU
Total/NA	Prep	3050B			91839	10/24/12 12:17	NER	TAL HOU
Total/NA	Analysis	6010B		1	91914	10/25/12 10:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	91866	10/24/12 15:25	KRD	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
TestAmerica Job ID: 600-63252-1
Project/Site: Exide Recycling Center, Frisco TX Projec

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAC	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAC	6	T104704223-10-6-TX	10-31-12
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAC	8	GULF	10-31-12

TX_1005

Texas - Total Petroleum Hydrocarbon (GC) by Method TX_1005

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Matrix: Solid Level: Low

GC Column (2): ID:

Client Sample ID	Lab Sample ID	OTPH #
2012-FWFS-3-Wall	600-63252-1	83
2012-FWFS-3-Floor	600-63252-2	81
2012-FWFS-2-Wall	600-63252-3	82
2012-FWFS-2-Floor	600-63252-4	84
2012-FWFS-1-Floor	600-63252-5	87
2012-FWFS-1-Wall	600-63252-6	88
	MB 600-91862/1-A	89
	LCS 600-91862/2-A	108

	QC LIMITS
OTPH = o-Terphenyl	70-130

Column to be used to flag recovery values

FORM II TX 1005

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: B102412_004.d

Lab ID: LCS 600-91862/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
C6-C12	250	264.1	106	75-125	
>C12-C28	250	247.1	99	75-125	
C6-C35	500	511.2	102	75-125	

Column to be used to flag recovery and RPD values

FORM III TX 1005

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab File ID: B102412_003.d Lab Sample ID: MB 600-91862/1-A

Matrix: Solid Date Extracted: 10/24/2012 14:48

Instrument ID: FID07 Date Analyzed: 10/24/2012 17:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-91862/2-A	B102412_004.d	10/24/2012 18:00
2012-FWFS-3-Wall	600-63252-1	B102412_005.d	10/24/2012 18:35
2012-FWFS-3-Floor	600-63252-2	B102412_006.d	10/24/2012 19:09
2012-FWFS-2-Wall	600-63252-3	B102412_007.d	10/24/2012 19:43
2012-FWFS-2-Floor	600-63252-4	B102412_008.d	10/24/2012 20:17
2012-FWFS-1-Floor	600-63252-5	B102412_009.d	10/24/2012 20:51
2012-FWFS-1-Wall	600-63252-6	B102412_010.d	10/24/2012 21:25

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Sample No.: CCVRT 600-91897/1 Date Analyzed: 10/24/2012 16:52

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm)

Lab File ID (Standard): B102412_002.d Heated Purge: (Y/N) N

Calibration ID: 1664

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				12.90		
UPPER LIMIT				13.00		
LOWER LIMIT				12.80		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 600-91897/1		10/24/2012 16:52	B102412_002.d	12.90		
MB 600-91862/1-A		10/24/2012 17:26	B102412_003.d	12.90		
LCS 600-91862/2-A		10/24/2012 18:00	B102412_004.d	12.90		
600-63252-1	2012-FWFS-3-Wall	10/24/2012 18:35	B102412_005.d	12.90		
600-63252-2	2012-FWFS-3-Floor	10/24/2012 19:09	B102412_006.d	12.90		
600-63252-3	2012-FWFS-2-Wall	10/24/2012 19:43	B102412_007.d	12.90		
600-63252-4	2012-FWFS-2-Floor	10/24/2012 20:17	B102412_008.d	12.90		
600-63252-5	2012-FWFS-1-Floor	10/24/2012 20:51	B102412_009.d	12.90		
600-63252-6	2012-FWFS-1-Wall	10/24/2012 21:25	B102412_010.d	12.90		
CCV 600-91897/11		10/24/2012 23:08	B102412_013.d	12.90		
CCV 600-91897/20		10/25/2012 04:51	B102412_023.d	12.90		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII TX 1005

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-3-Wall Lab Sample ID: 600-63252-1

Matrix: Solid Lab File ID: B102412_005.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:10

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.04(g) Date Analyzed: 10/24/2012 18:35

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 21.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.84	U	31.8	4.84
STL00035	>C12-C28	5.17	U	31.8	5.17
STL00147	>C28-C35	5.17	U	31.8	5.17
STL00006	C6-C35	9.53	U	31.8	9.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_005.d
Lab Smp Id: 600-63252-B-1-A Client Smp ID: 2012-FWFS-3-Wall
Inj Date : 24-OCT-2012 18:35
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-1-A
Misc Info : 600-63252-B-1-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.040	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

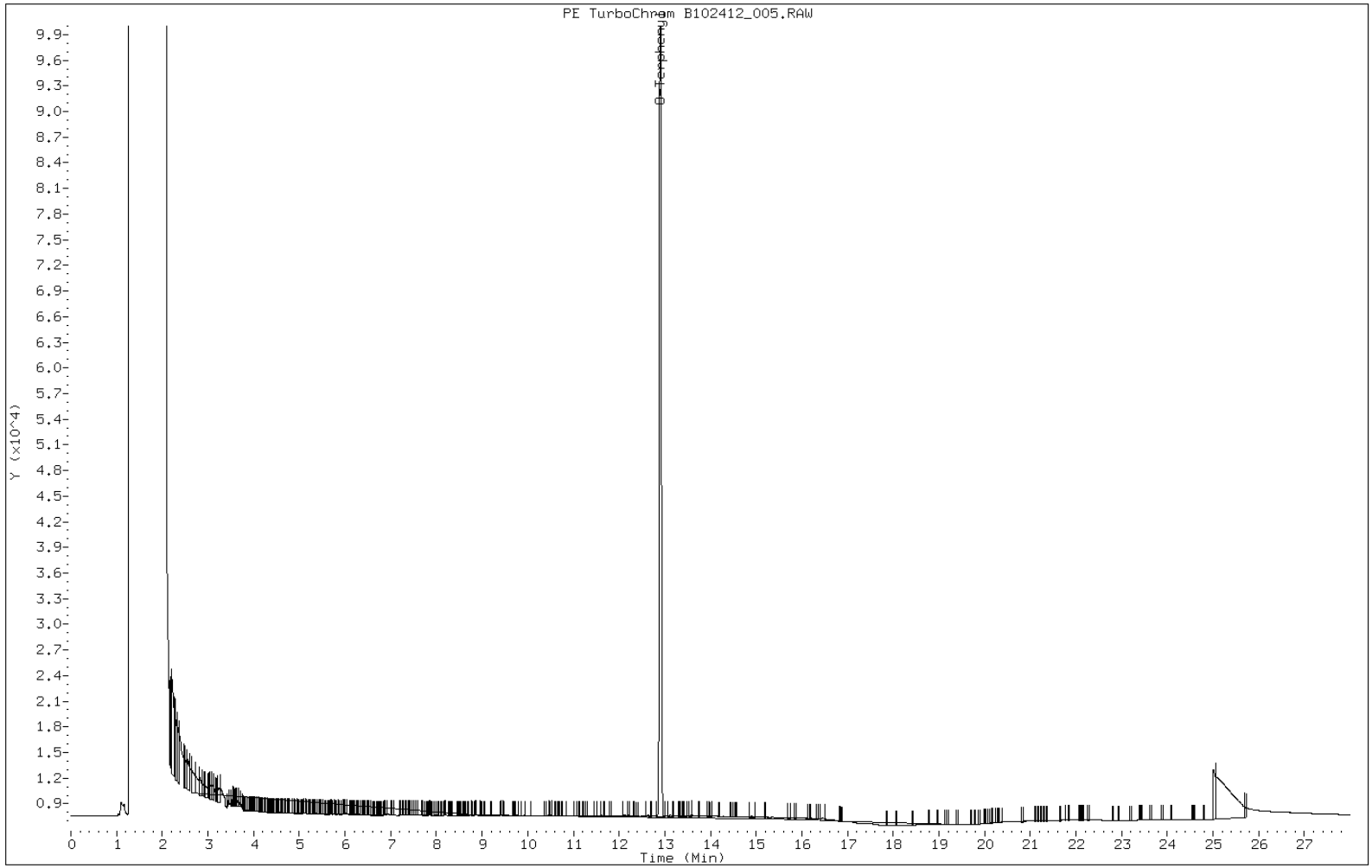
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	323375	10.4060	10.36

Data File: B102412_005.d

Date: 24-OCT-2012 18:35

Client ID: 2012-FWFS-3-Wall Instrument: FID-07.i

Sample Info: 600-63252-B-1-A Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-3-Floor Lab Sample ID: 600-63252-2

Matrix: Solid Lab File ID: B102412_006.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:19

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.01(g) Date Analyzed: 10/24/2012 19:09

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 24.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	5.06	U	33.3	5.06
STL00035	>C12-C28	5.40	U	33.3	5.40
STL00147	>C28-C35	5.40	U	33.3	5.40
STL00006	C6-C35	9.95	U	33.3	9.95

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_006.d
Lab Smp Id: 600-63252-B-2-A Client Smp ID: 2012-FWFS-3-Floor
Inj Date : 24-OCT-2012 19:09
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-2-A
Misc Info : 600-63252-B-2-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.010	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

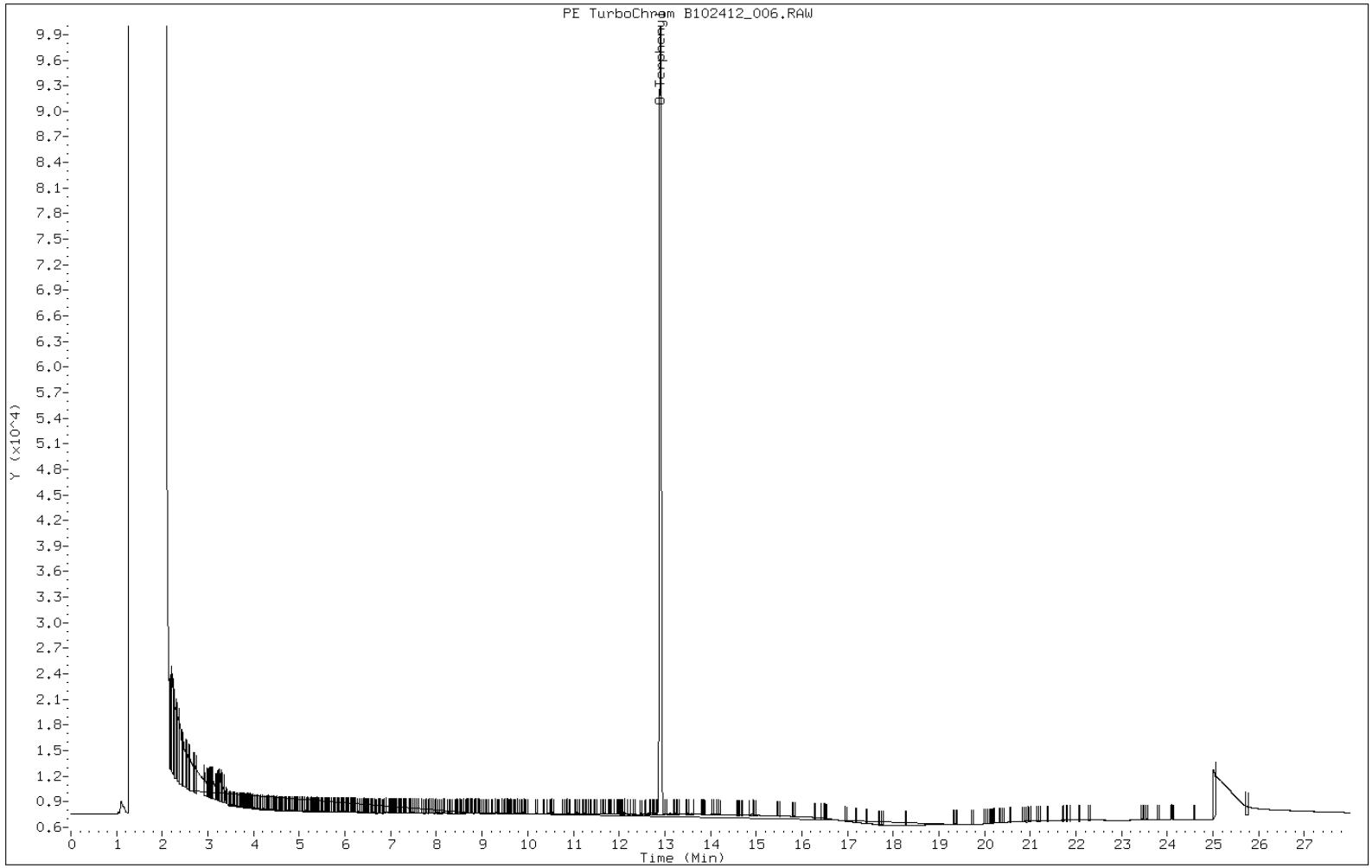
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	315748	10.1606	10.15

Data File: B102412_006.d

Date: 24-OCT-2012 19:09

Client ID: 2012-FWFS-3-Floor Instrument: FID-07.i

Sample Info: 600-63252-B-2-A Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-2-Wall Lab Sample ID: 600-63252-3

Matrix: Solid Lab File ID: B102412_007.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:24

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.05(g) Date Analyzed: 10/24/2012 19:43

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.75	U	31.2	4.75
STL00035	>C12-C28	5.07	U	31.2	5.07
STL00147	>C28-C35	5.07	U	31.2	5.07
STL00006	C6-C35	9.35	U	31.2	9.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_007.d
Lab Smp Id: 600-63252-B-3-A Client Smp ID: 2012-FWFS-2-Wall
Inj Date : 24-OCT-2012 19:43
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-3-A
Misc Info : 600-63252-B-3-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.050	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

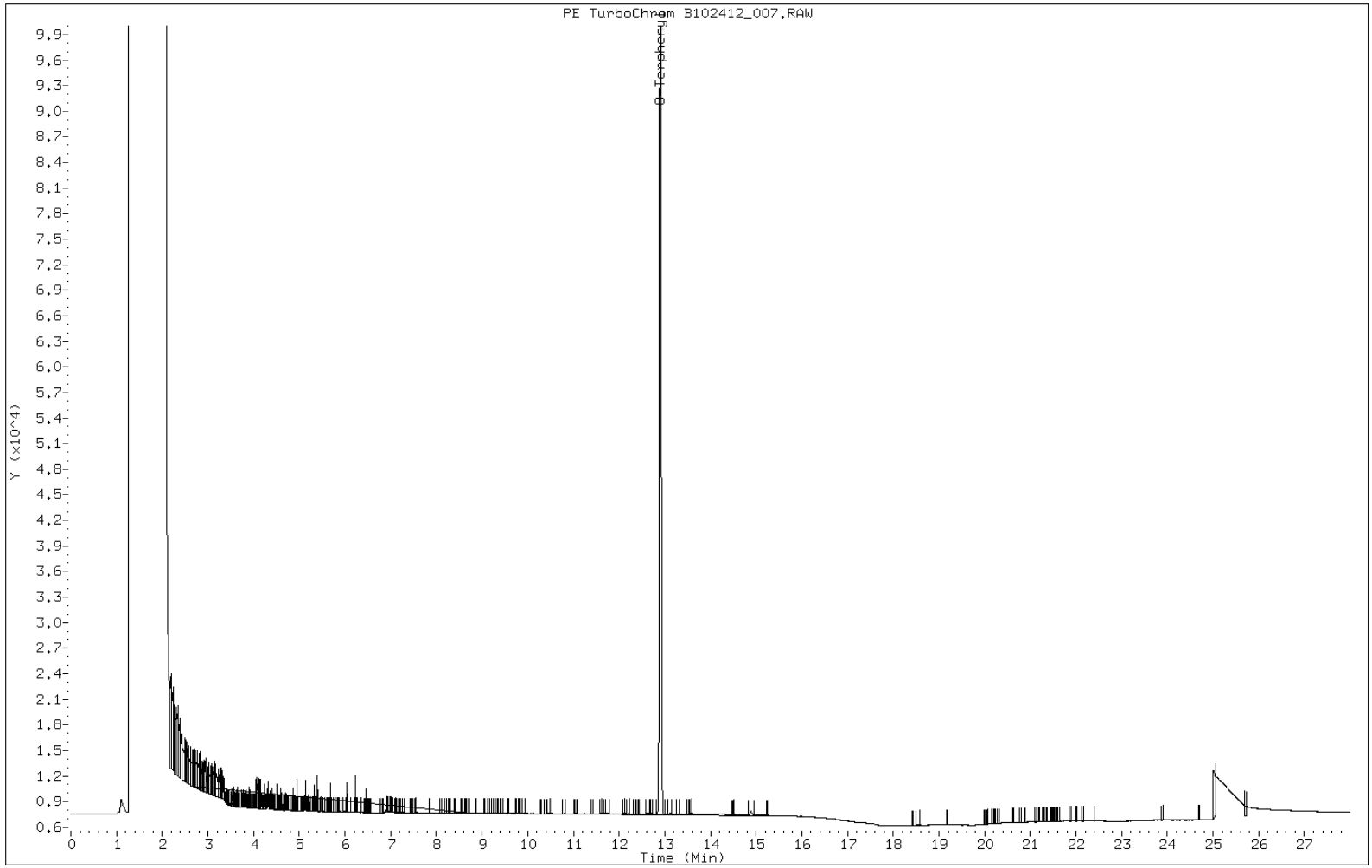
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	319673	10.2869	10.24

Data File: B102412_007.d

Date: 24-OCT-2012 19:43

Client ID: 2012-FWFS-2-Wall Instrument: FID-07.i

Sample Info: 600-63252-B-3-A Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-2-Floor Lab Sample ID: 600-63252-4

Matrix: Solid Lab File ID: B102412_008.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:35

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.04(g) Date Analyzed: 10/24/2012 20:17

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 25.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	5.06	U	33.3	5.06
STL00035	>C12-C28	5.40	U	33.3	5.40
STL00147	>C28-C35	5.40	U	33.3	5.40
STL00006	C6-C35	9.95	U	33.3	9.95

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	84		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_008.d
Lab Smp Id: 600-63252-B-4-A Client Smp ID: 2012-FWFS-2-Floor
Inj Date : 24-OCT-2012 20:17
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-4-A
Misc Info : 600-63252-B-4-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.040	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

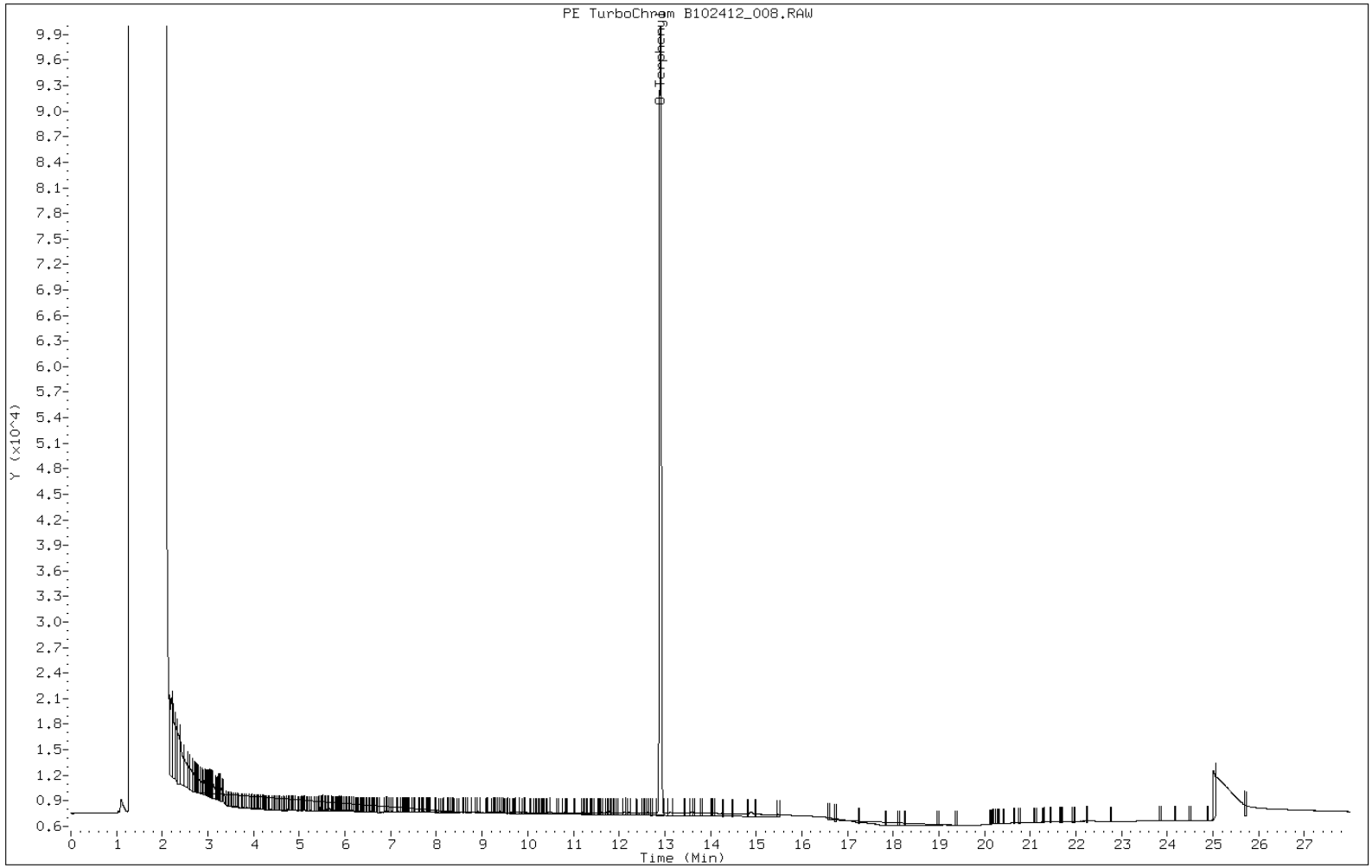
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	326223	10.4977	10.46

Data File: B102412_008.d

Date: 24-OCT-2012 20:17

Client ID: 2012-FWFS-2-Floor Instrument: FID-07.i

Sample Info: 600-63252-B-4-A Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-1-Floor Lab Sample ID: 600-63252-5

Matrix: Solid Lab File ID: B102412_009.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:48

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.06(g) Date Analyzed: 10/24/2012 20:51

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 6.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.02	U	26.5	4.02
STL00035	>C12-C28	4.30	U	26.5	4.30
STL00147	>C28-C35	4.30	U	26.5	4.30
STL00006	C6-C35	7.92	U	26.5	7.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_009.d
Lab Smp Id: 600-63252-B-5-A Client Smp ID: 2012-FWFS-1-Floor
Inj Date : 24-OCT-2012 20:51
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-5-A
Misc Info : 600-63252-B-5-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.060	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

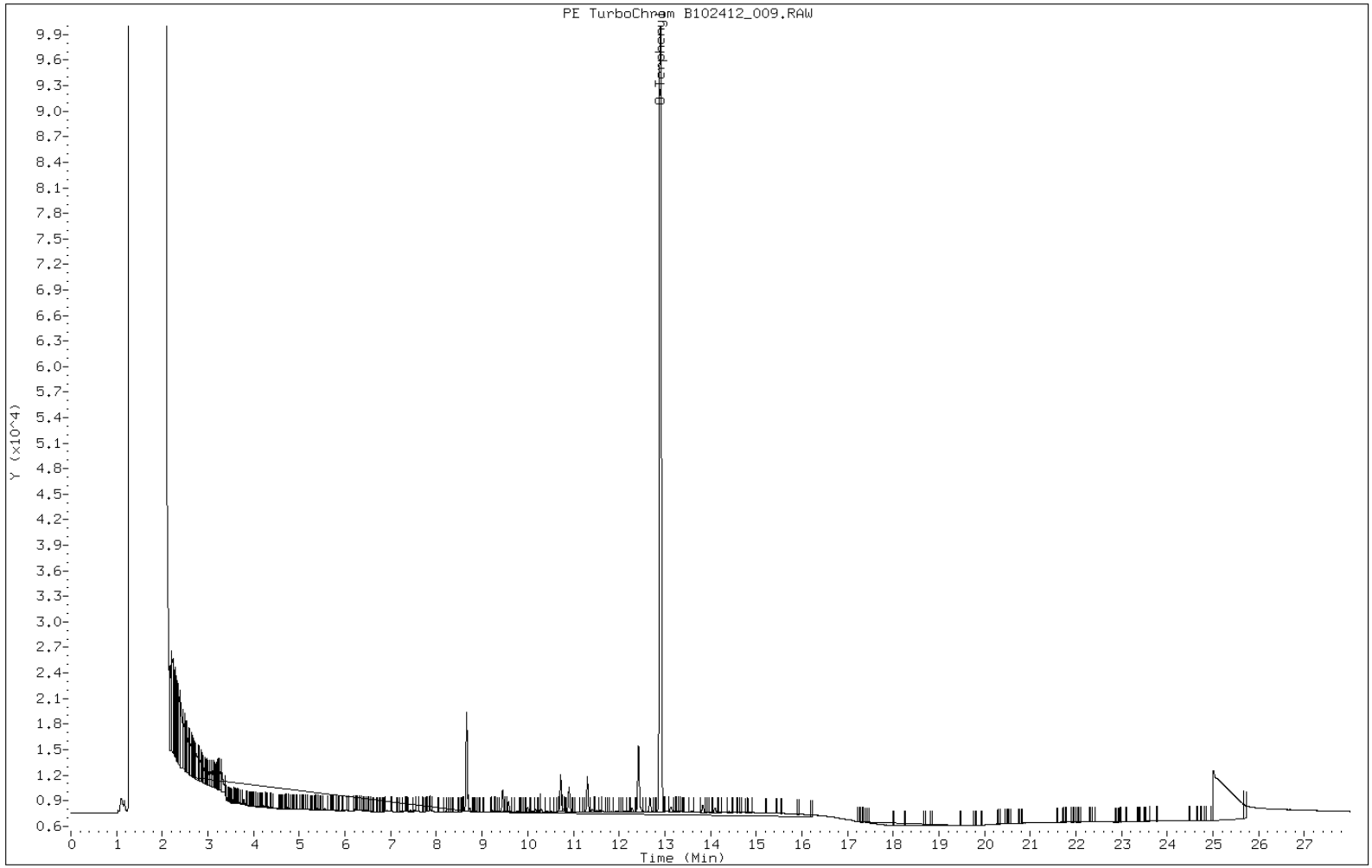
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	339875	10.9370	10.87

Data File: B102412_009.d

Date: 24-OCT-2012 20:51

Client ID: 2012-FWFS-1-Floor Instrument: FID-07.i

Sample Info: 600-63252-B-5-A Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: 2012-FWFS-1-Wall Lab Sample ID: 600-63252-6

Matrix: Solid Lab File ID: B102412_010.d

Analysis Method: TX 1005 Date Collected: 10/22/2012 10:52

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.04(g) Date Analyzed: 10/24/2012 21:25

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: 23.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	4.97	U	32.7	4.97
STL00035	>C12-C28	5.31	U	32.7	5.31
STL00147	>C28-C35	5.31	U	32.7	5.31
STL00006	C6-C35	9.79	U	32.7	9.79

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_010.d
Lab Smp Id: 600-63252-B-6-A Client Smp ID: 2012-FWFS-1-Wall
Inj Date : 24-OCT-2012 21:25
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : 600-63252-B-6-A
Misc Info : 600-63252-B-6-A
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Ws * Uf)/((100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Ws	10.040	Sample Weight
Uf	2.000	Unit Factor
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

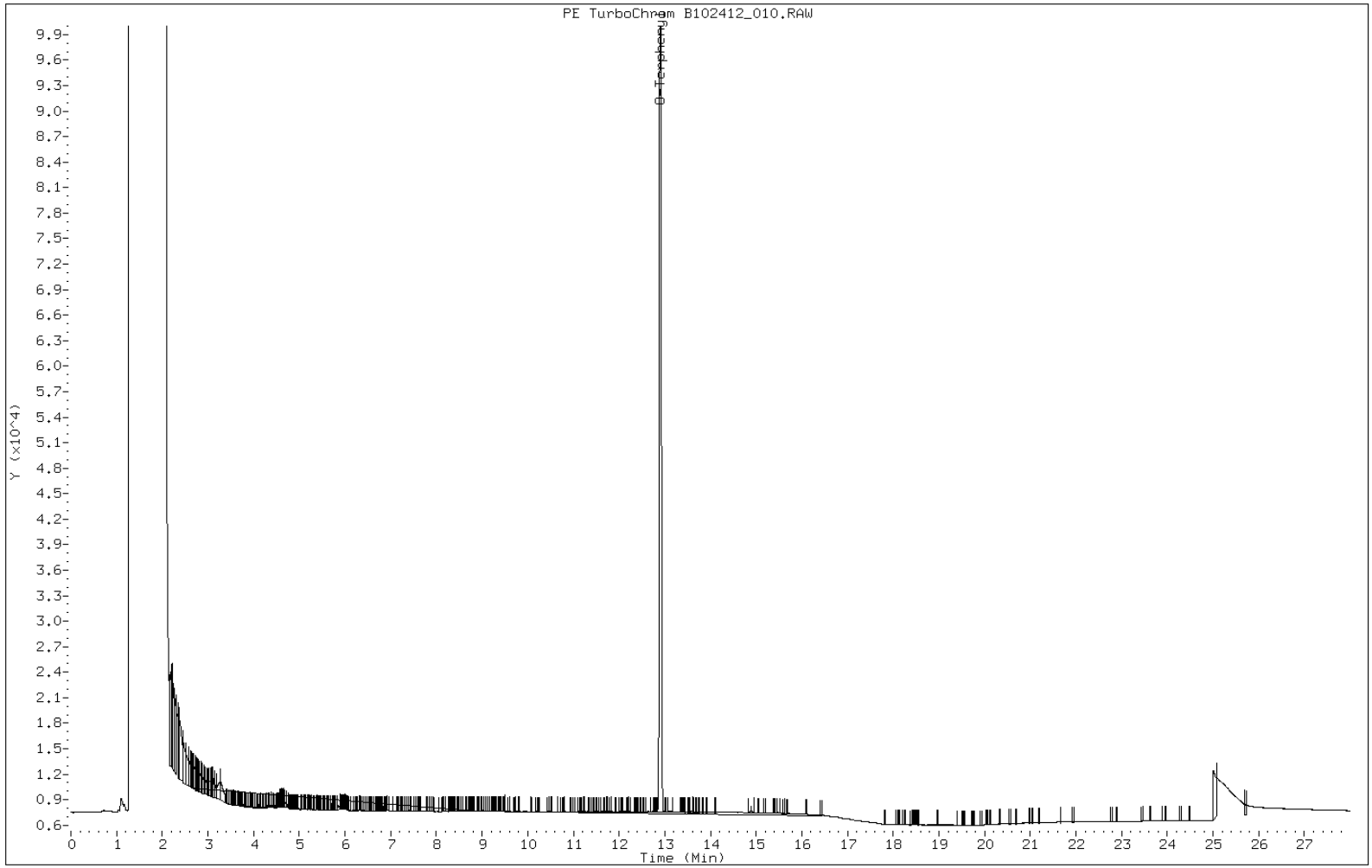
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/Kg)
$ 4 O-Terphenyl	12.903	12.915	-0.012	340787	10.9663	10.92

Data File: B102412_010.d

Date: 24-OCT-2012 21:25

Client ID: 2012-FWFS-1-Wall Instrument: FID-07.i

Sample Info: 600-63252-B-6-A Operator: VanderBorghR



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-63252-1 Analy Batch No.: 91371

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 13:25 Calibration End Date: 10/17/2012 16:52 Calibration ID: 1664

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-91371/1	B101612_016.d
Level 2	IC 600-91371/2	B101612_017.d
Level 3	IC 600-91371/3	B101612_018.d
Level 4	ICRT 600-91371/4	B101612_019.d
Level 5	IC 600-91371/5	B101612_020.d
Level 6	IC 600-91371/6	B101612_021.d
Level 7	IC 600-91371/7	B101612_022.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
C6-C12	5.735	5.735	5.735	5.735	5.735	5.735	5.735				2.620 - 8.850	5.735
C6-C35	11.085	11.085	11.085	11.085	11.085	11.085	11.085				2.620 - 19.550	11.085
>C12-C28	12.652	12.652	12.652	12.652	12.652	12.652	12.652				8.850 - 16.455	12.653
>C28-C35	18.002	18.002	18.002	18.002	18.002	18.002	18.002				16.455 - 19.550	18.003
o-Terphenyl	12.913	12.913	12.917	12.917	12.917	12.913	12.913				12.815 - 13.015	12.915

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-63252-1 Analy Batch No.: 91371

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 13:25 Calibration End Date: 10/17/2012 16:52 Calibration ID: 1664

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-91371/1	B101612_016.d
Level 2	IC 600-91371/2	B101612_017.d
Level 3	IC 600-91371/3	B101612_018.d
Level 4	ICRT 600-91371/4	B101612_019.d
Level 5	IC 600-91371/5	B101612_020.d
Level 6	IC 600-91371/6	B101612_021.d
Level 7	IC 600-91371/7	B101612_022.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
C6-C12	20872 19710	20849 20357	20005 21011	19263	Ave		20295.2239				3.3		25.0			
C6-C35	62681 59252	67689 59282	62085 61408	61843	Ave		62034.2106				4.6		25.0			
>C12-C28	19165 18968	21899 18647	19891 19760	20174	Ave		19786.1682				5.5		25.0			
>C28-C35	22644 20574	24940 20278	22189 20637	22407	Ave		21952.8185				7.5		25.0			
o-Terphenyl	31416 29233	35288 28778	30576 30221	32018	Ave		31075.7326				7.0		30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-63252-1 Analy Batch No.: 91371

SDG No.:

Instrument ID: FID07 GC Column: RTX-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 13:25 Calibration End Date: 10/17/2012 16:52 Calibration ID: 1664

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-91371/1	B101612_016.d
Level 2	IC 600-91371/2	B101612_017.d
Level 3	IC 600-91371/3	B101612_018.d
Level 4	ICRT 600-91371/4	B101612_019.d
Level 5	IC 600-91371/5	B101612_020.d
Level 6	IC 600-91371/6	B101612_021.d
Level 7	IC 600-91371/7	B101612_022.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
C6-C12	Ave	208724 16285554	1042455 21010530	2000500	3852501	7884036	10.0 800	50.0 1000	100	200	400
C6-C35	Ave	626812 47425532	3384434 61408237	6208463	12368598	23700729	10.0 800	50.0 1000	100	200	400
>C12-C28	Ave	191649 14917438	1094970 19760425	1989056	4034705	7587028	10.0 800	50.0 1000	100	200	400
>C28-C35	Ave	226439 16222540	1247009 20637282	2218907	4481392	8229665	10.0 800	50.0 1000	100	200	400
o-Terphenyl	Ave	19635 1438884	110275 1888818	191103	400227	730818	0.625 50.0	3.13 62.5	6.25	12.5	25.0

Curve Type Legend:

Ave = Average

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_016.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 13:25
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-1
Misc Info : 066
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:23 FID-07.i Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			208724	10.0000	0.000
S	2 Greater than C12-C28	8.850-16.454			191649	10.0000	0.000(M)
S	3 Greater than C28-C35	16.454-19.550			226439	10.0000	0.000(M)
$	4 O-Terphenyl	12.913	12.913	0.000	19635	0.62500	0.000
S	5 Total C6-C35				626812	10.0000	0.000

QC Flag Legend

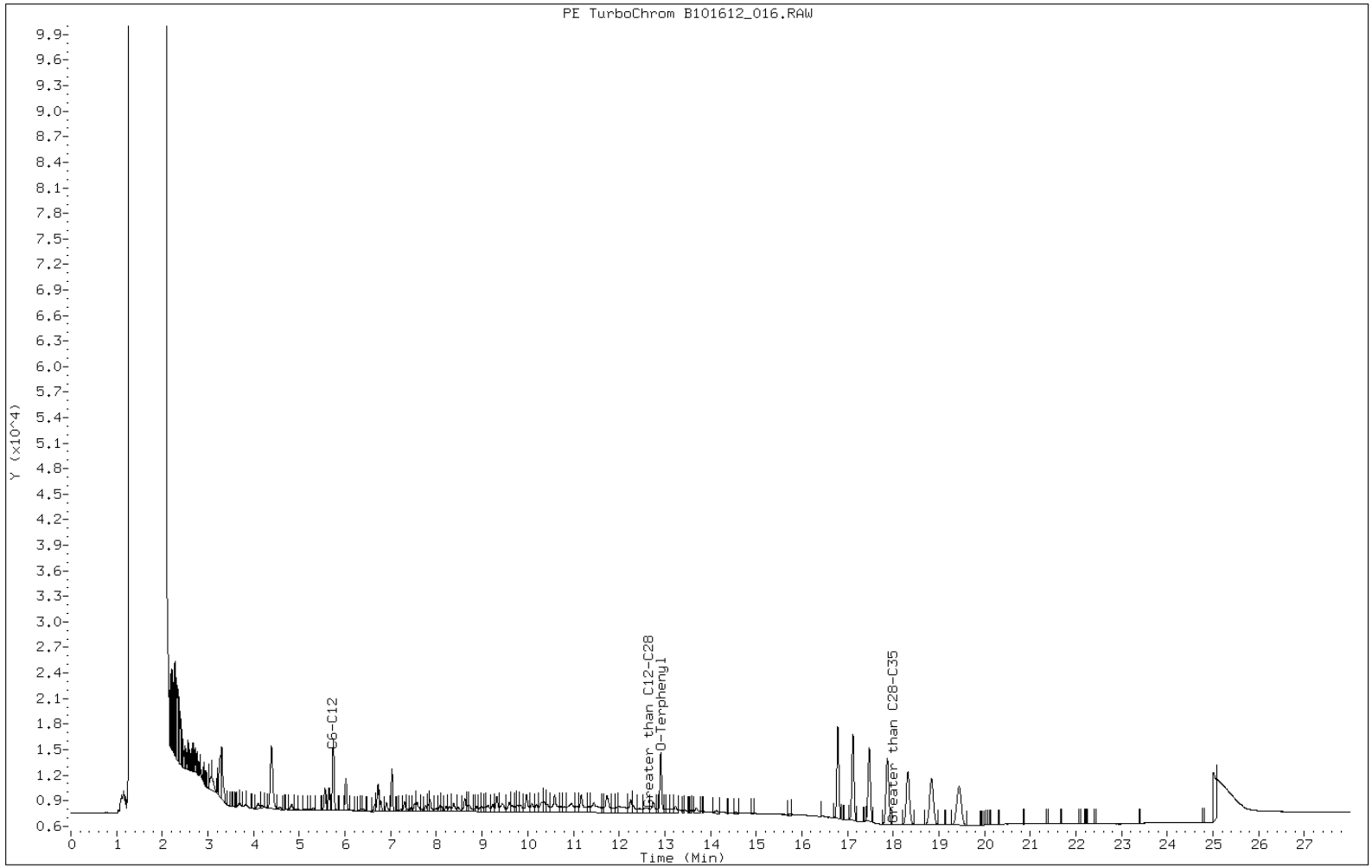
M - Compound response manually integrated.

Data File: B101612_016.d

Date: 17-OCT-2012 13:25

Client ID: Instrument: FID-07.i

Sample Info: IC-1 Operator: VanderBorghR



Manual Integration Report

Data File: B101612_016.d
Inj. Date and Time: 17-OCT-2012 13:25
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 10/18/2012

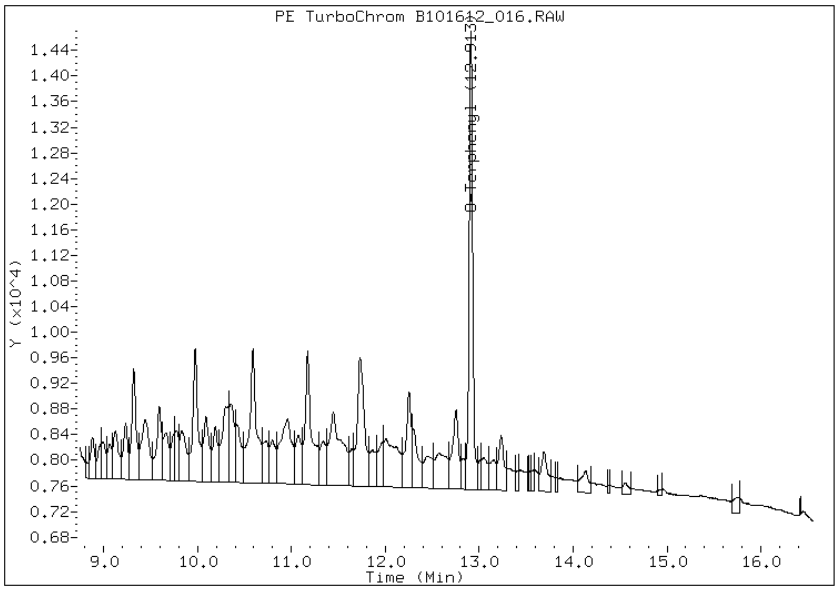
Processing Integration Results

RT: 12.65

Response: 192815

Amount: 10.67

Conc: 10.67



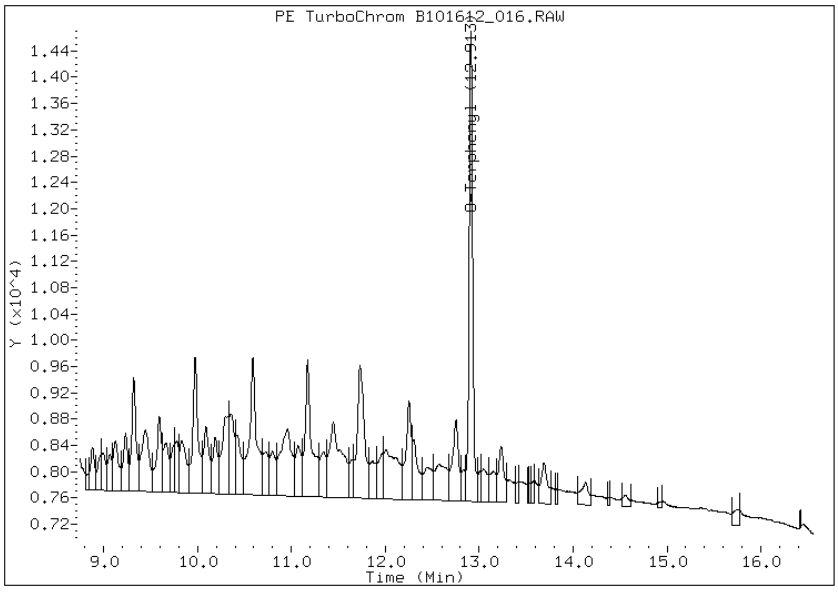
Manual Integration Results

RT: 12.65

Response: 191649

Amount: 0.00

Conc: 0.00



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: B101612_016.d
Inj. Date and Time: 17-OCT-2012 13:25
Instrument ID: FID-07.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 10/18/2012

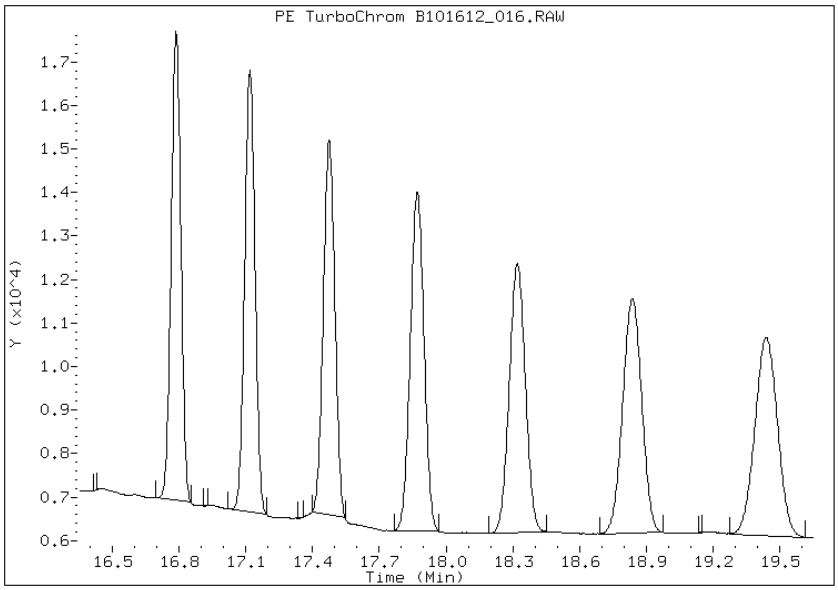
Processing Integration Results

RT: 18.00

Response: 232001

Amount: 10.66

Conc: 10.66



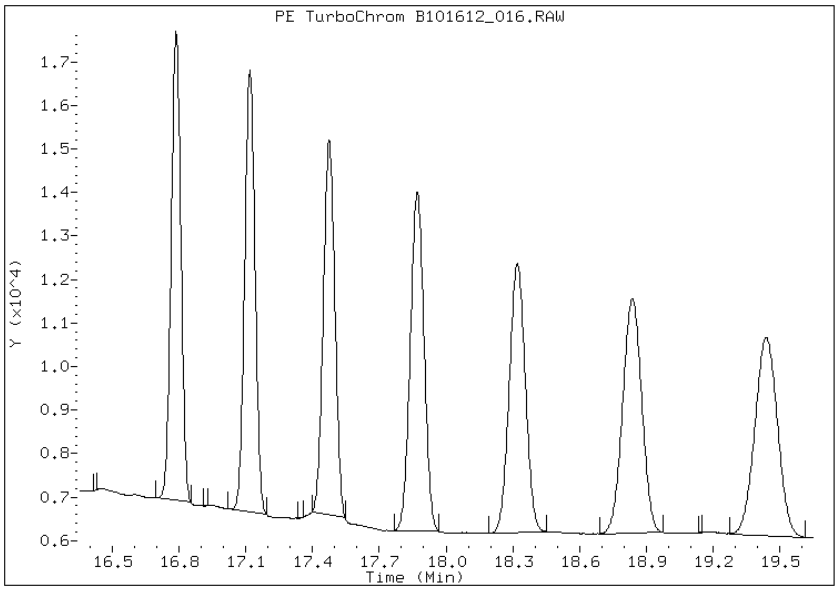
Manual Integration Results

RT: 18.00

Response: 226439

Amount: 0.00

Conc: 0.00



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_017.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 14:00
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-2
Misc Info : 067
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:23 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 13:25 Cal File: B101612_016.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			1042455	50.0000	49.94(M)
S	2 Greater than C12-C28	8.850-16.454			1094970	50.0000	57.13(M)
S	3 Greater than C28-C35	16.454-19.550			1247009	50.0000	55.07(M)
$	4 O-Terphenyl	12.913	12.913	0.000	110275	3.12500	3.51
S	5 Total C6-C35				3384434	50.0000	162.1

QC Flag Legend

M - Compound response manually integrated.

Data File: B101612_017.d

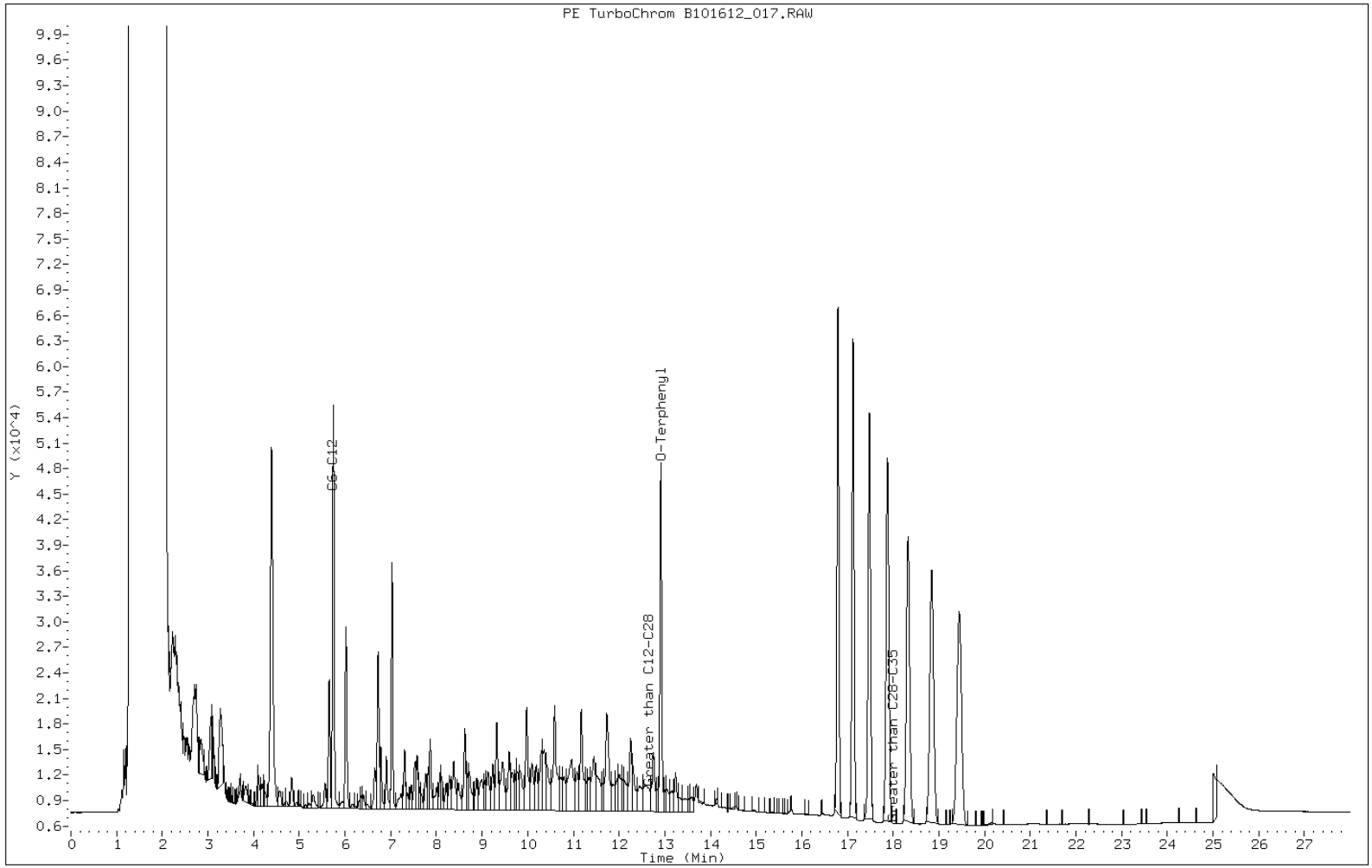
Date: 17-OCT-2012 14:00

Client ID:

Instrument: FID-07.i

Sample Info: IC-2

Operator: VanderBorghR



Manual Integration Report

Data File: B101612_017.d
Inj. Date and Time: 17-OCT-2012 14:00
Instrument ID: FID-07.i
Client ID:
Compound: 1 C6-C12
CAS #: STL00061
Report Date: 10/18/2012

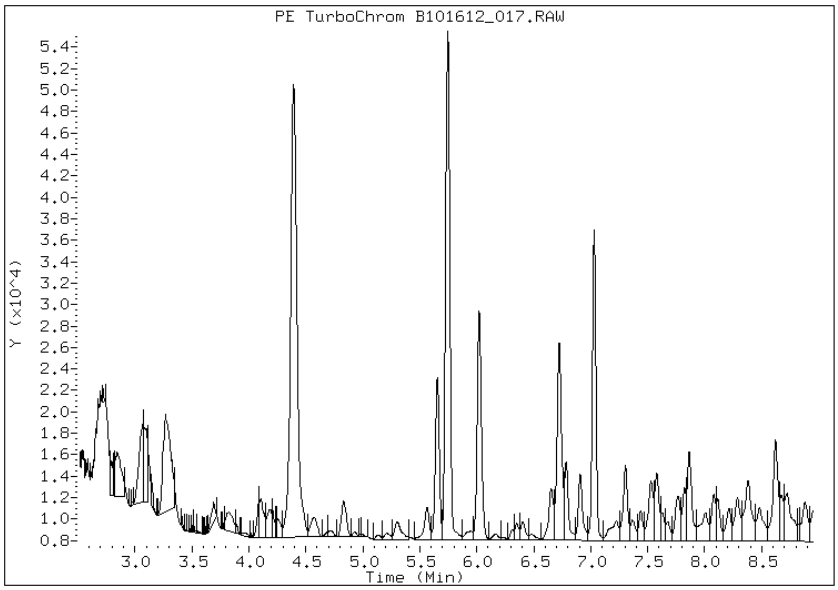
Processing Integration Results

RT: 5.74

Response: 1092003

Amount: 55.23

Conc: 55.23



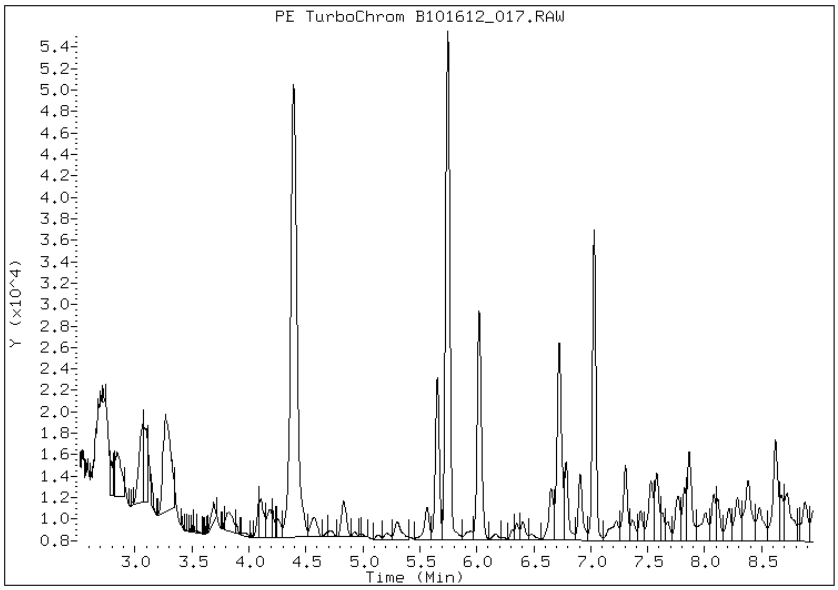
Manual Integration Results

RT: 5.74

Response: 1042455

Amount: 49.94

Conc: 49.94



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: B101612_017.d
Inj. Date and Time: 17-OCT-2012 14:00
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 10/18/2012

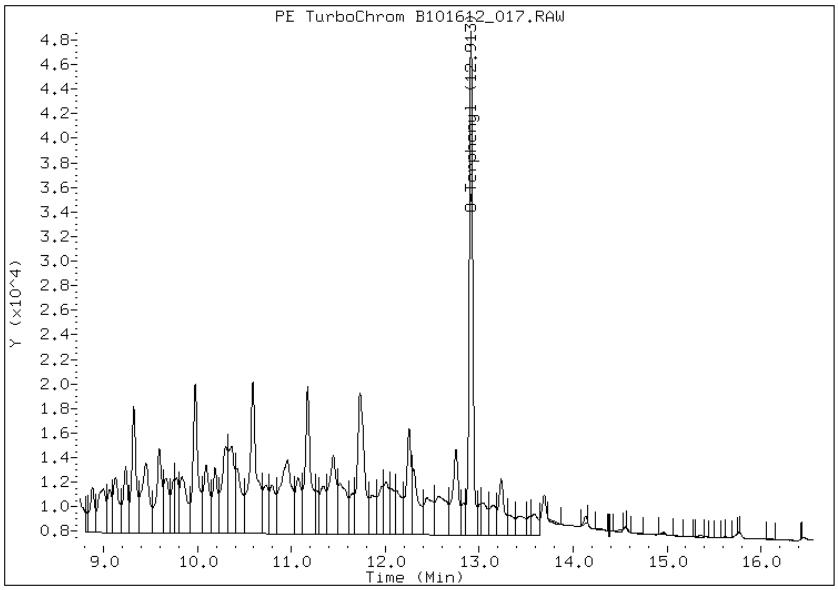
Processing Integration Results

RT: 12.65

Response: 1141130

Amount: 58.53

Conc: 58.53



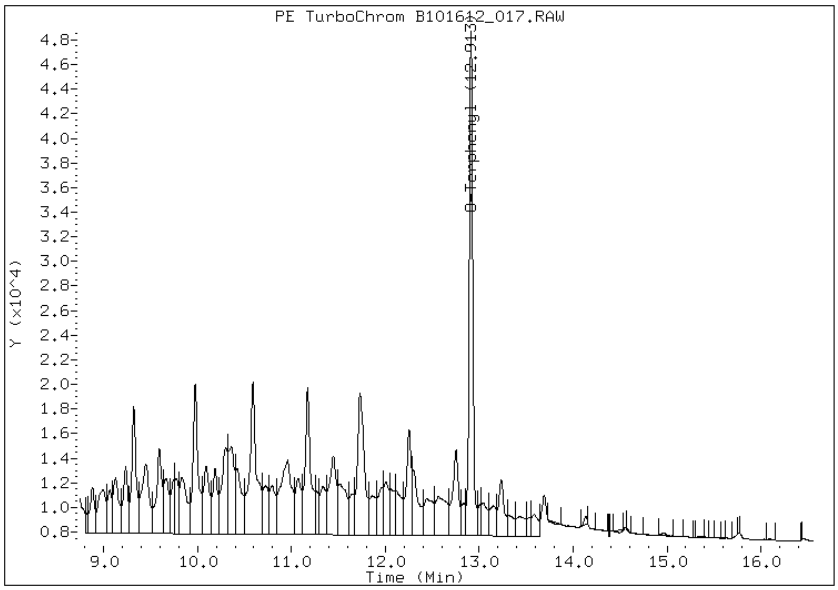
Manual Integration Results

RT: 12.65

Response: 1094970

Amount: 57.13

Conc: 57.13



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: B101612_017.d
Inj. Date and Time: 17-OCT-2012 14:00
Instrument ID: FID-07.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 10/18/2012

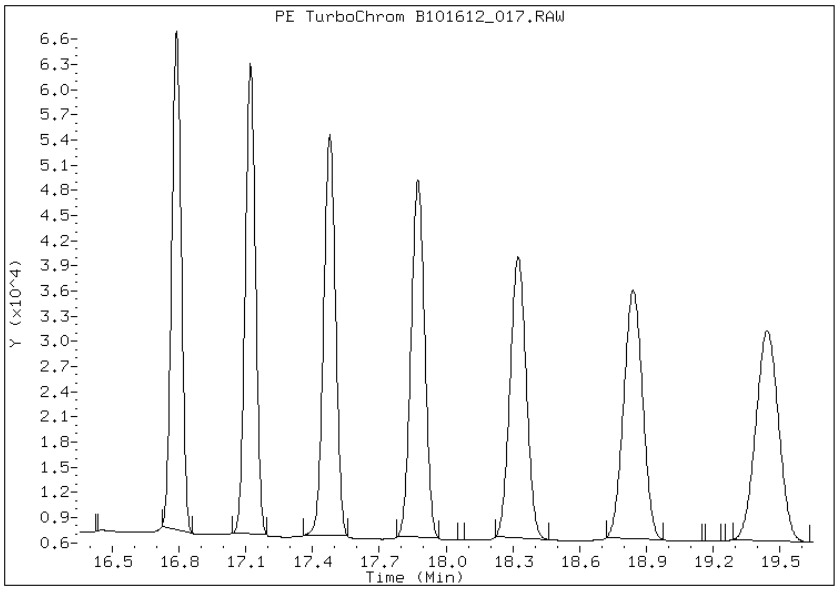
Processing Integration Results

RT: 18.00

Response: 1273467

Amount: 58.75

Conc: 58.75



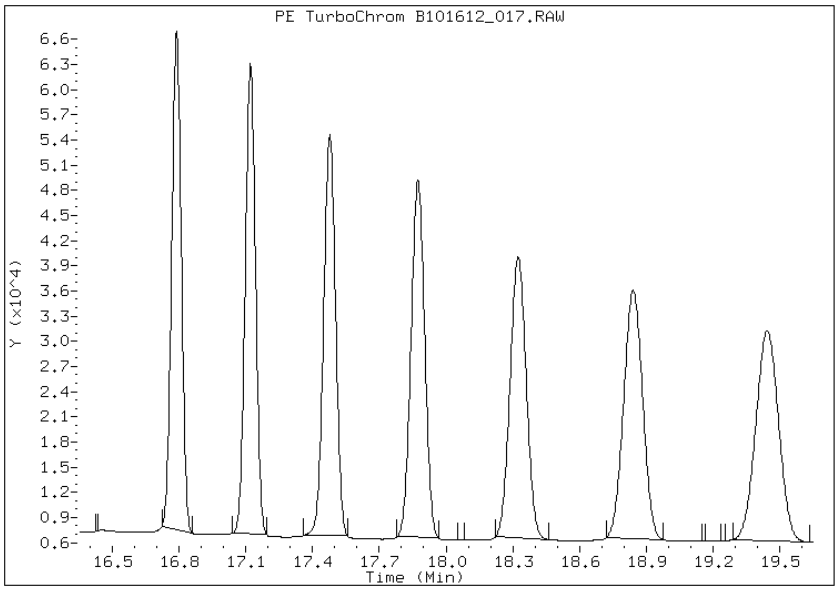
Manual Integration Results

RT: 18.00

Response: 1247009

Amount: 55.07

Conc: 55.07



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_018.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 14:34
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-3
Misc Info : 068
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:24 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 14:00 Cal File: B101612_017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			2000500	100.000	95.90
S	2 Greater than C12-C28	8.850-16.454			1989056	100.000	96.88
S	3 Greater than C28-C35	16.454-19.550			2218907	100.000	93.26
$	4 O-Terphenyl	12.916	12.914	0.002	191103	6.25000	5.73
S	5 Total C6-C35				6208463	100.000	286.0

Data File: B101612_018.d

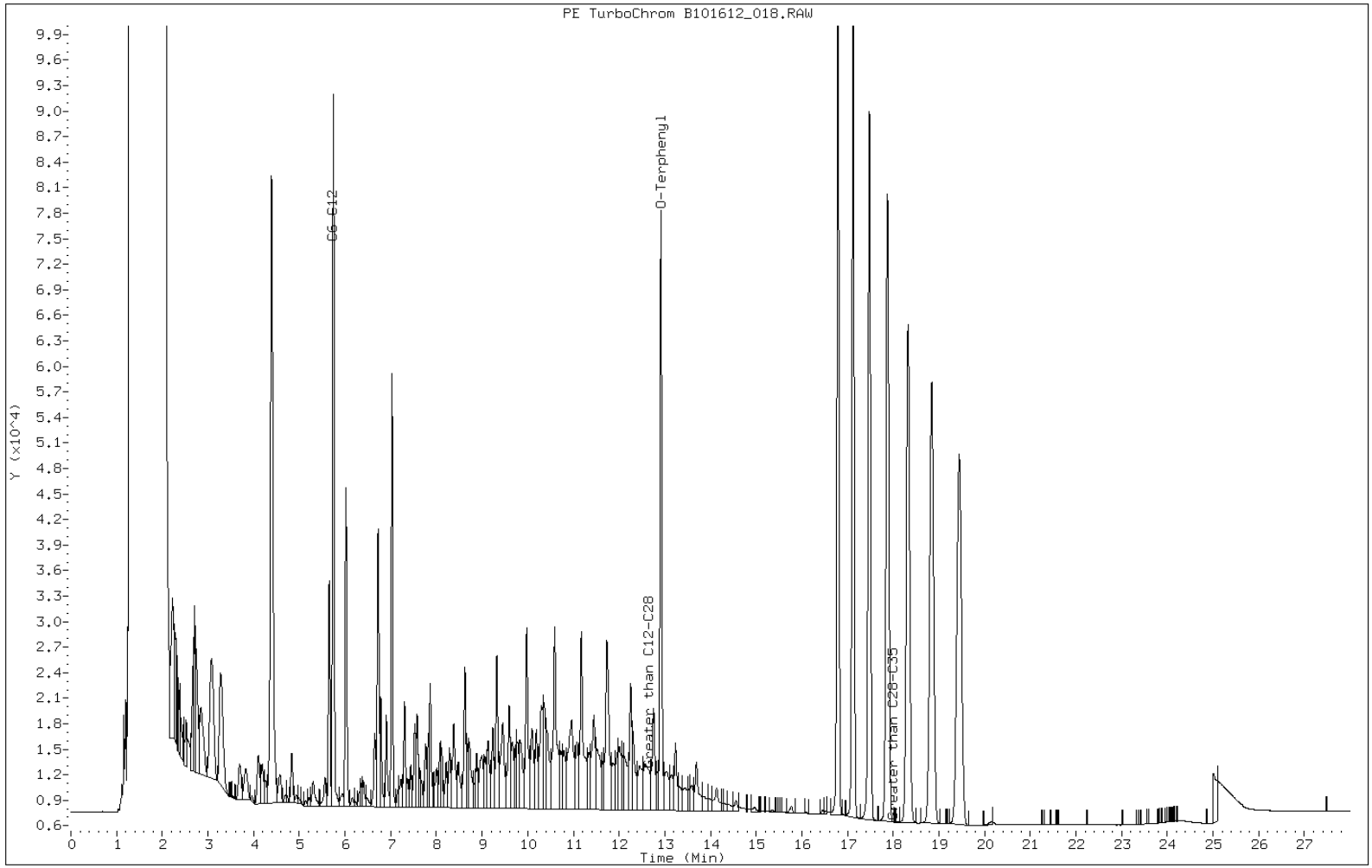
Date: 17-OCT-2012 14:34

Client ID:

Instrument: FID-07.i

Sample Info: IC-3

Operator: VanderBorghR



TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_019.d
Lab Smp Id: ICRT
Inj Date : 17-OCT-2012 15:08
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : ICRT
Misc Info : 069
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:24 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 14:34 Cal File: B101612_018.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			3852501	200.000	187.2
S	2 Greater than C12-C28	8.850-16.454			4034705	200.000	198.6(M)
S	3 Greater than C28-C35	16.454-19.550			4481392	200.000	192.7(M)
$	4 O-Terphenyl	12.916	12.915	0.001	400227	12.5000	12.34
S	5 Total C6-C35				12368598	200.000	578.5

QC Flag Legend

M - Compound response manually integrated.

Data File: B101612_019.d

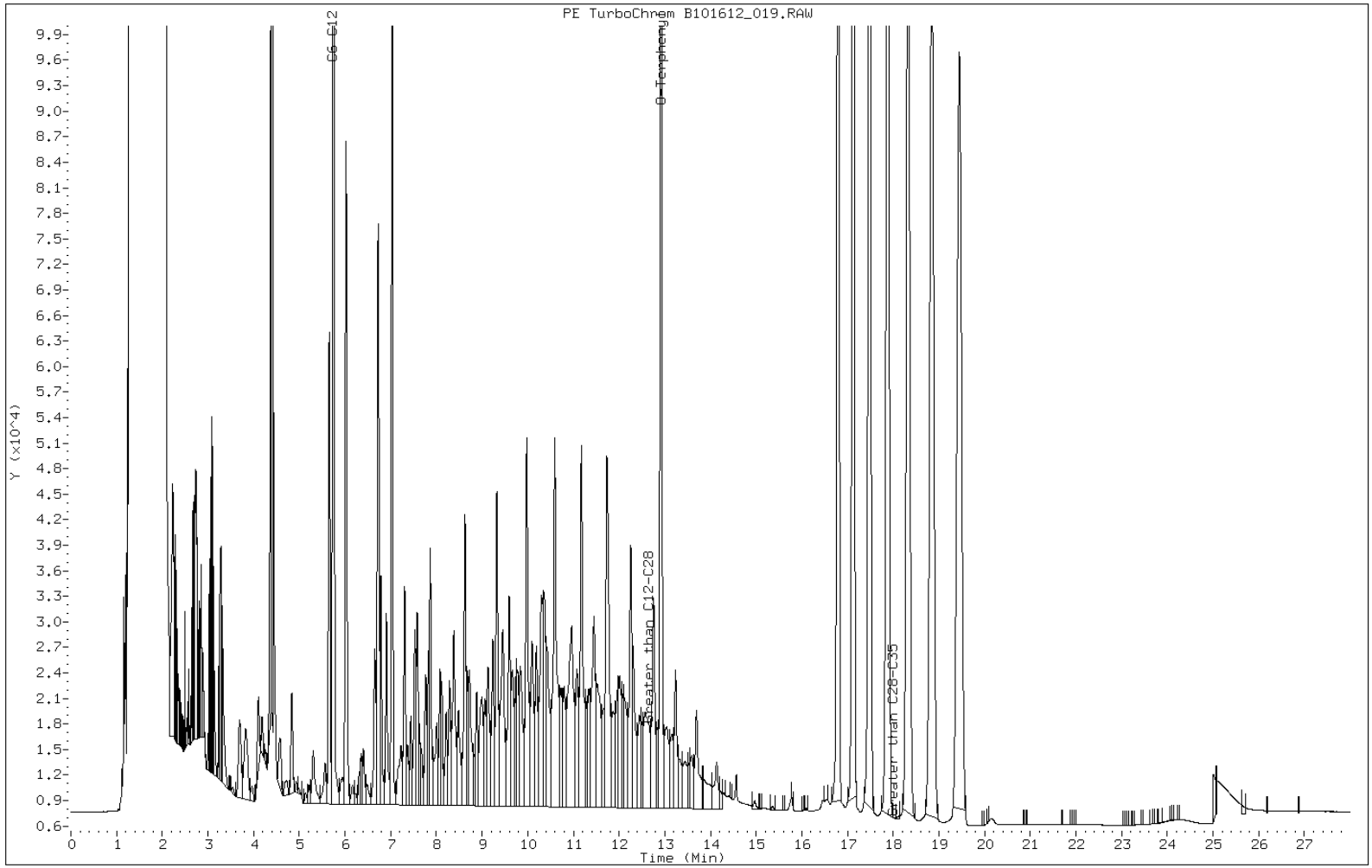
Date: 17-OCT-2012 15:08

Client ID:

Instrument: FID-07.i

Sample Info: ICRT

Operator: VanderBorghR



Manual Integration Report

Data File: B101612_019.d
Inj. Date and Time: 17-OCT-2012 15:08
Instrument ID: FID-07.i
Client ID:
Compound: 2 Greater than C12-C28
CAS #: STL00035
Report Date: 10/18/2012

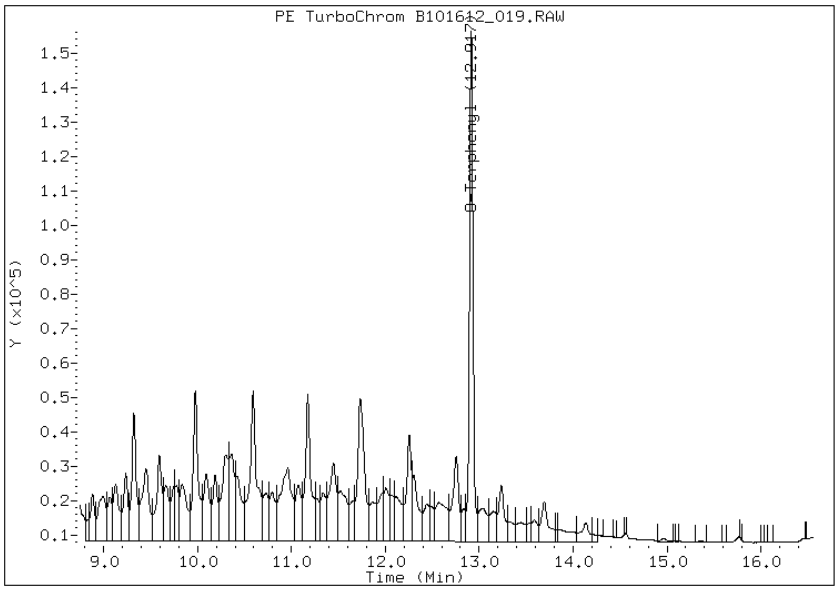
Processing Integration Results

RT: 12.65

Response: 4075566

Amount: 214.42

Conc: 214.42



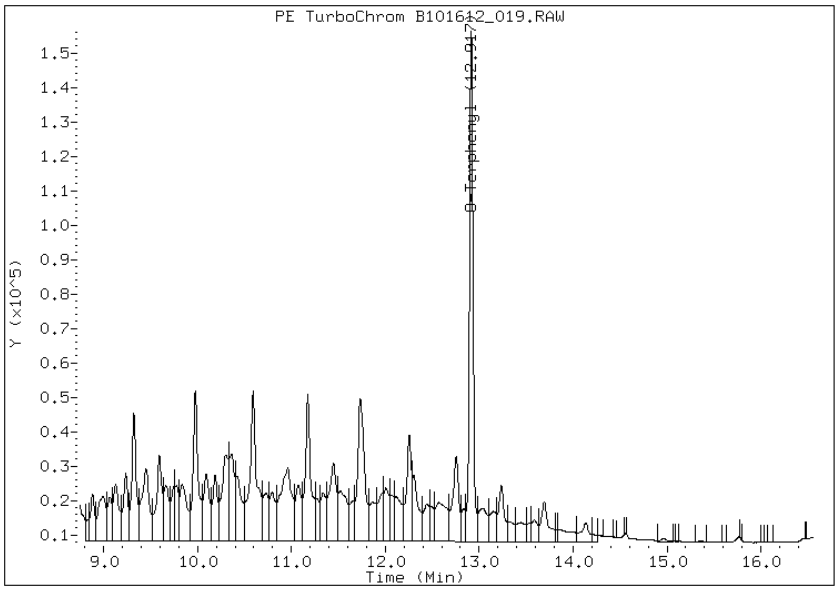
Manual Integration Results

RT: 12.65

Response: 4034705

Amount: 198.58

Conc: 198.58



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

Manual Integration Report

Data File: B101612_019.d
Inj. Date and Time: 17-OCT-2012 15:08
Instrument ID: FID-07.i
Client ID:
Compound: 3 Greater than C28-C35
CAS #: STL00147
Report Date: 10/18/2012

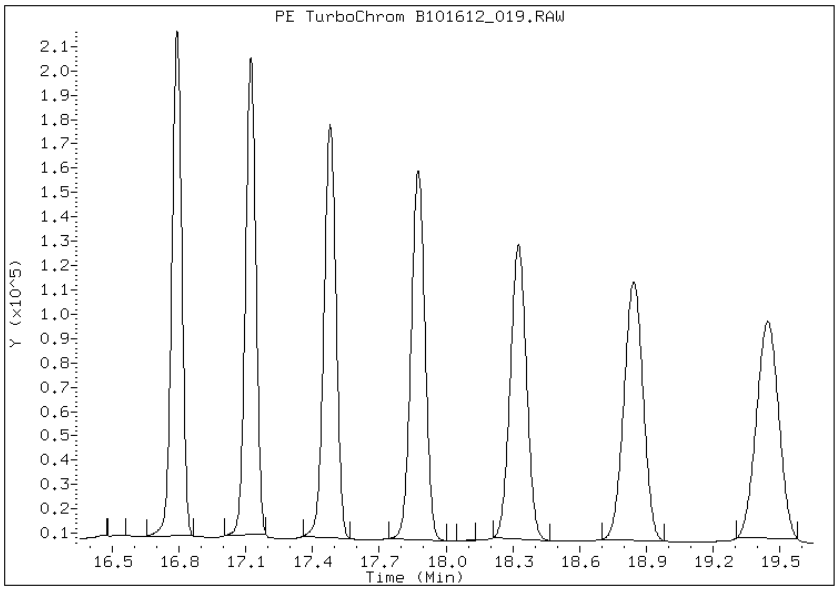
Processing Integration Results

RT: 18.00

Response: 4625607

Amount: 214.16

Conc: 214.16



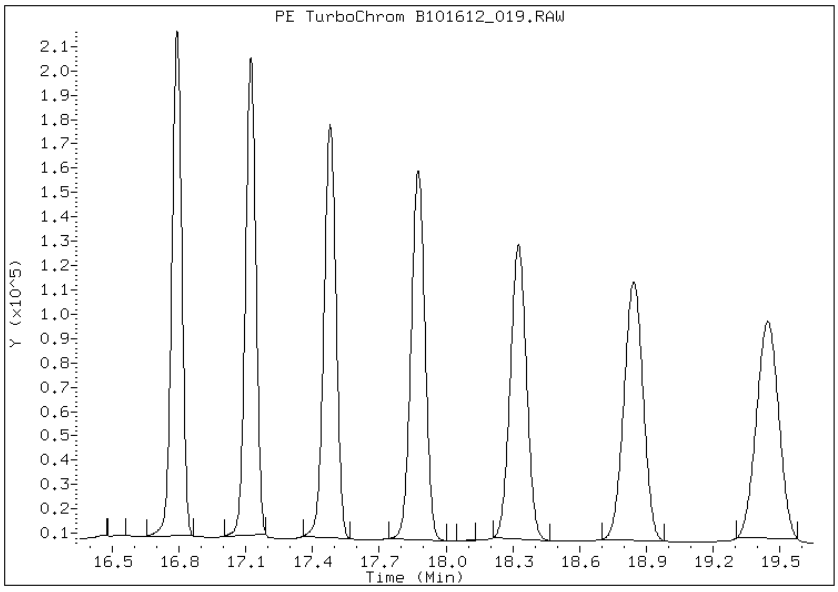
Manual Integration Results

RT: 18.00

Response: 4481392

Amount: 192.68

Conc: 192.68



Manually Integrated By: vanderborghr
Modification Date:
Manual Integration Reason:

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_020.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 15:43
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-5
Misc Info : 070
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:24 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 15:08 Cal File: B101612_019.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			7884036	400.000	389.4
S	2 Greater than C12-C28	8.850-16.454			7587028	400.000	374.1
S	3 Greater than C28-C35	16.454-19.550			8229665	400.000	357.1
$	4 O-Terphenyl	12.916	12.915	0.001	730818	25.0000	22.61
S	5 Total C6-C35				23700729	400.000	1121

Data File: B101612_020.d

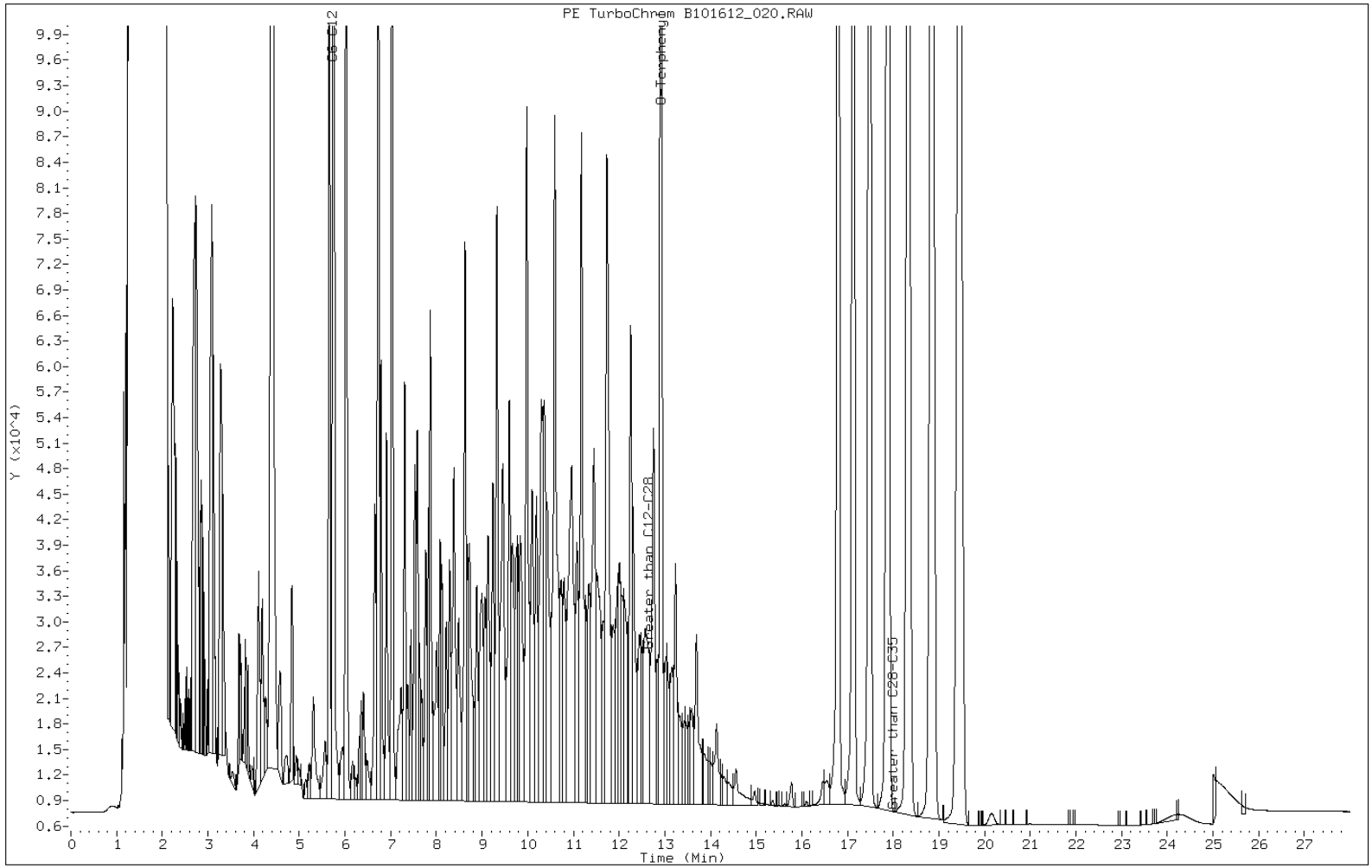
Date: 17-OCT-2012 15:43

Client ID:

Instrument: FID-07.i

Sample Info: IC-5

Operator: VanderBorghR



TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_021.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 16:17
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-6
Misc Info : 071
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:24 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 15:43 Cal File: B101612_020.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			16285554	800.000	808.6
S	2 Greater than C12-C28	8.850-16.454			14917438	800.000	745.2
S	3 Greater than C28-C35	16.454-19.550			16222540	800.000	719.4
$	4 O-Terphenyl	12.913	12.915	-0.002	1438884	50.0000	45.38
S	5 Total C6-C35				47425532	800.000	2273

Data File: B101612_021.d

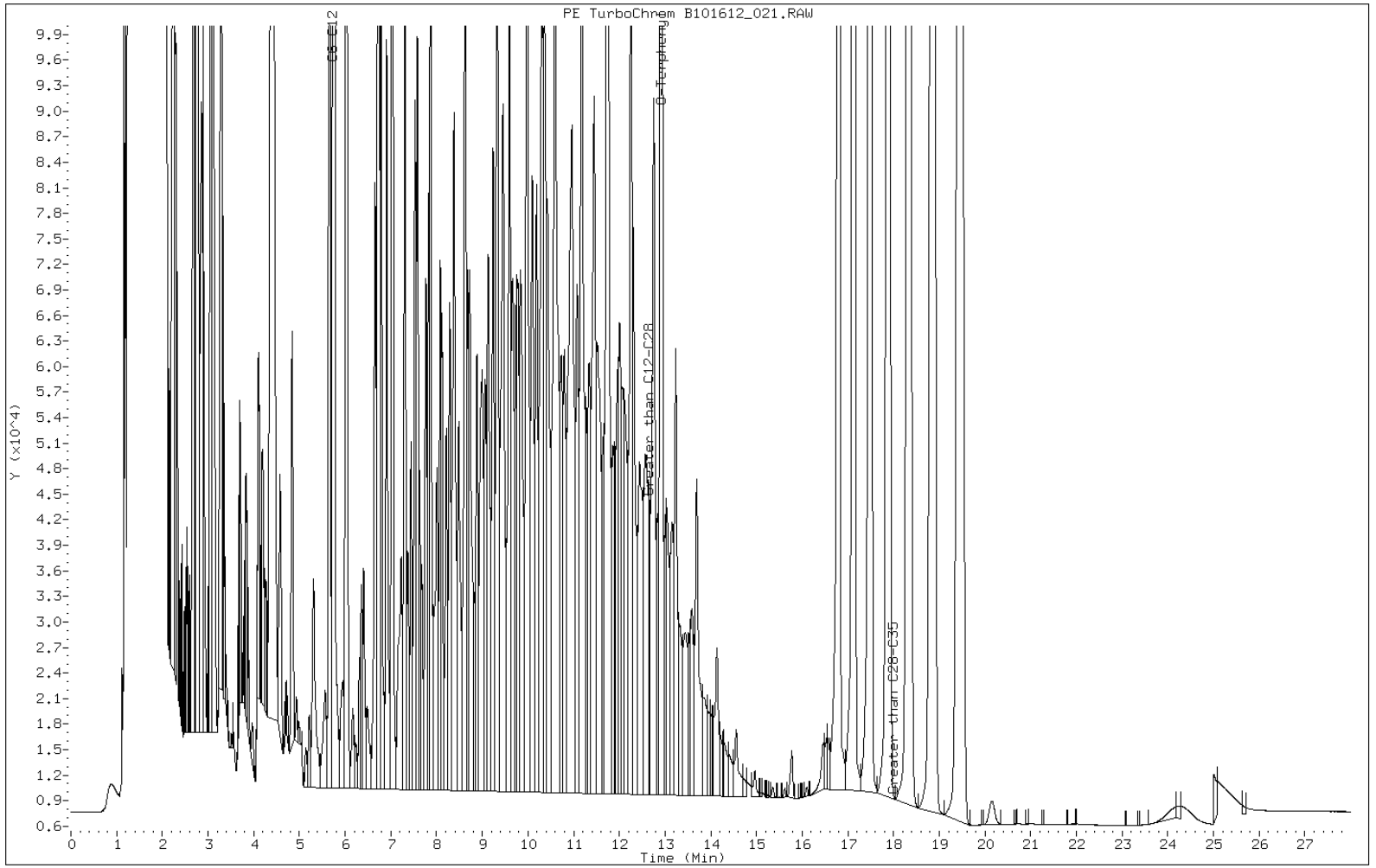
Date: 17-OCT-2012 16:17

Client ID:

Instrument: FID-07.i

Sample Info: IC-6

Operator: VanderBorghR



TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\101612B.b\B101612_022.d
Lab Smp Id: IC
Inj Date : 17-OCT-2012 16:52
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : IC-7
Misc Info : 072
Comment :
Method : \\housvr4\chem\FID-07.i\101612B.b\1005B.m
Meth Date : 18-Oct-2012 08:24 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:17 Cal File: B101612_021.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			21010530	1000.00	1041(A)
S	2 Greater than C12-C28	8.850-16.454			19760425	1000.00	998.5
S	3 Greater than C28-C35	16.454-19.550			20637282	1000.00	930.8
$	4 O-Terphenyl	12.913	12.914	-0.001	1888818	62.5000	60.50
S	5 Total C6-C35				61408237	1000.00	2971

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: B101612_022.d

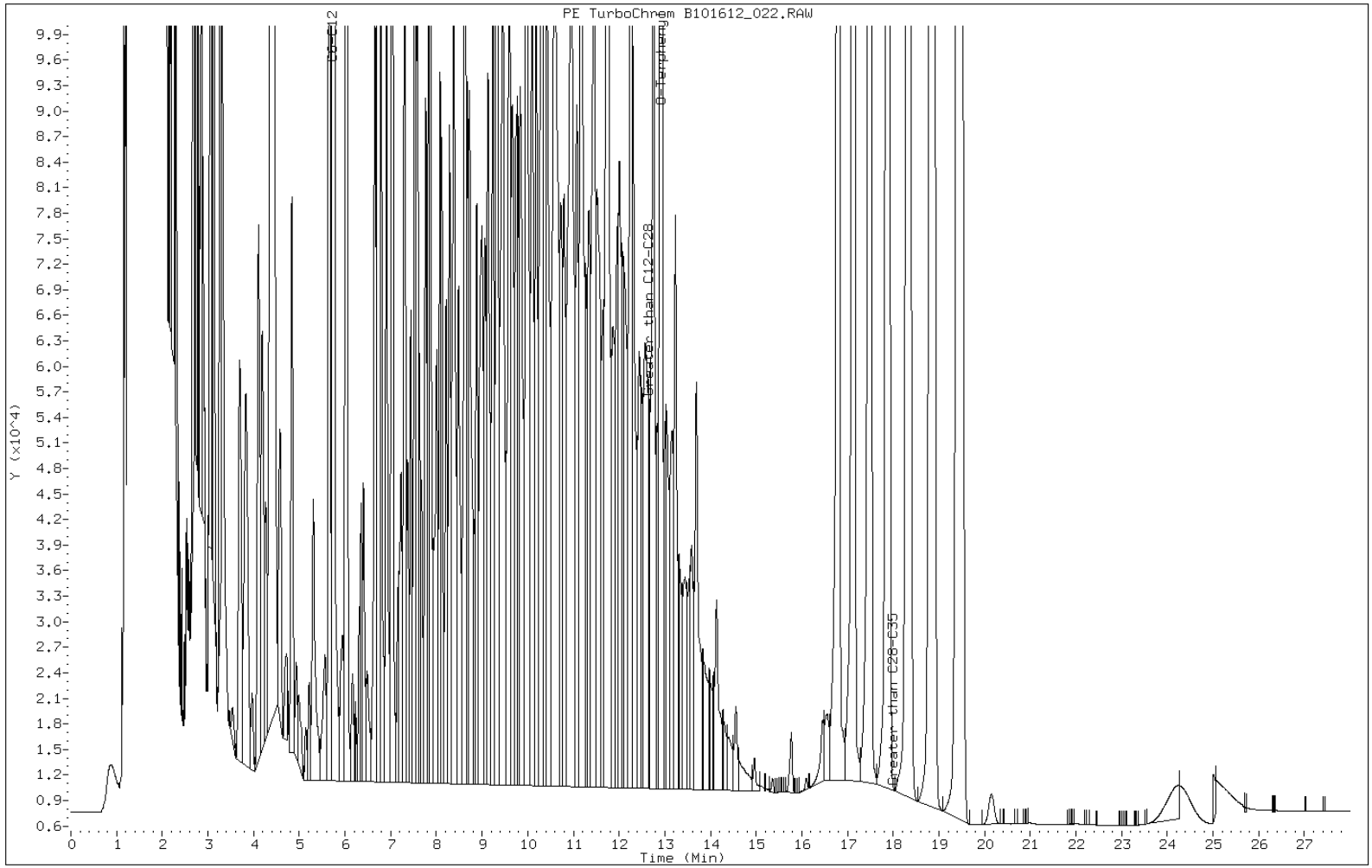
Date: 17-OCT-2012 16:52

Client ID:

Instrument: FID-07.i

Sample Info: IC-7

Operator: VanderBorghR



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCVRT 600-91897/1 Calibration Date: 10/24/2012 16:52

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_002.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	20295	20867		206	200	2.8	25.0
>C12-C28	Ave	19786	19632		198	200	-0.8	25.0
>C28-C35	Ave	21953	21812		199	200	-0.6	25.0
o-Terphenyl	Ave	31076	30256		12.2	12.5	-2.6	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCVRT 600-91897/1 Calibration Date: 10/24/2012 16:52

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_002.d

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.74	2.62	8.85
C6-C35	11.09	2.62	19.55
>C12-C28	12.65	8.85	16.45
>C28-C35	18.00	16.45	19.55
o-Terphenyl	12.90	12.82	13.02

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_002.d
Lab Smp Id: CCVRT
Inj Date : 24-OCT-2012 16:52
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : CCVRT
Misc Info : 052
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:02 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			4173430	200.000	205.6
S	2 Greater than C12-C28	8.850-16.454			3926422	200.000	198.4
S	3 Greater than C28-C35	16.454-19.550			4360663	200.000	198.6
$	4 O-Terphenyl	12.900	12.915	-0.015	378203	12.5000	12.17
S	5 Total C6-C35				12460515	200.000	602.7

Data File: B102412_002.d

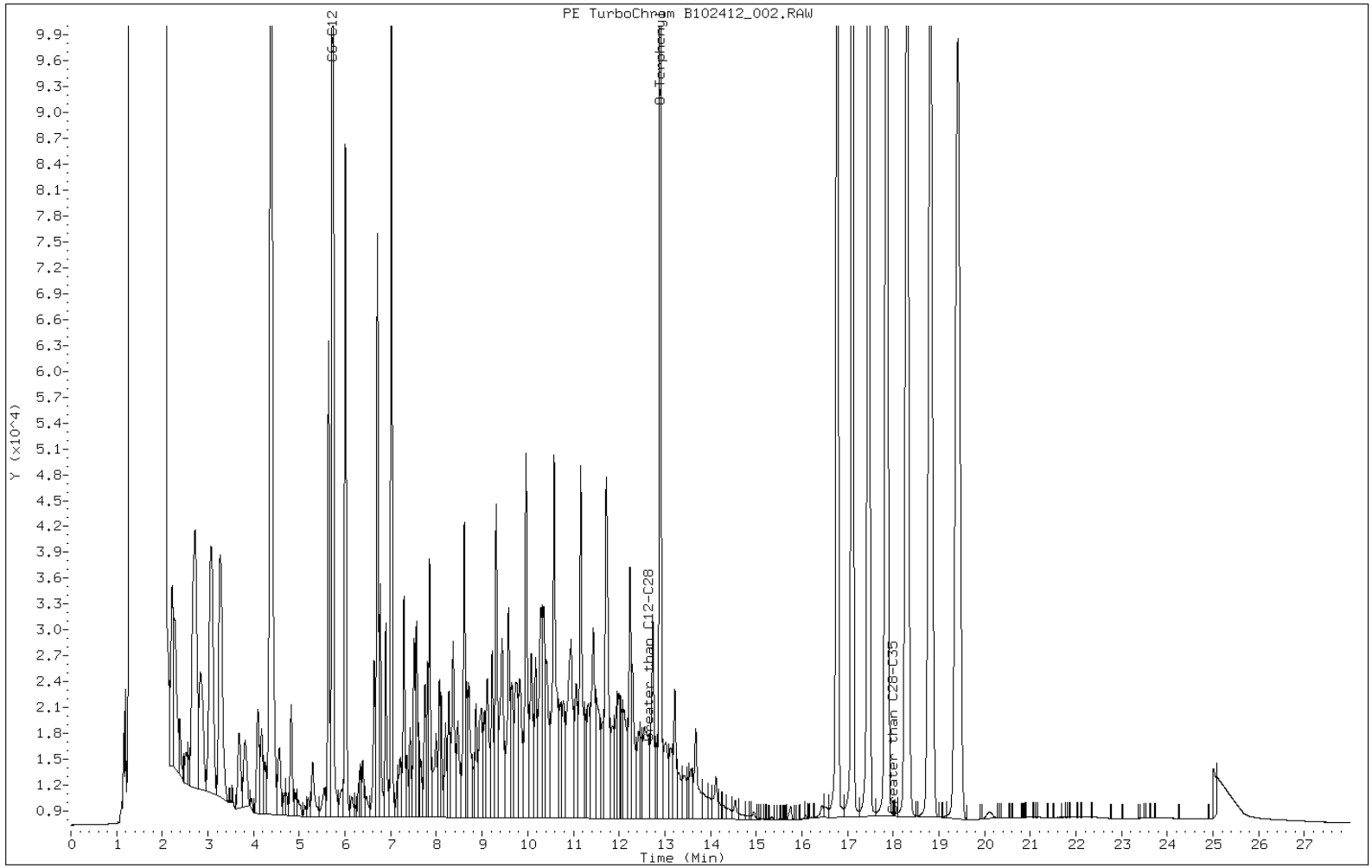
Date: 24-OCT-2012 16:52

Client ID:

Instrument: FID-07.i

Sample Info: CCVRT

Operator: VanderBorghR



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCV 600-91897/11 Calibration Date: 10/24/2012 23:08

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_013.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	20295	20399		201	200	0.5	25.0
>C12-C28	Ave	19786	19945		202	200	0.8	25.0
>C28-C35	Ave	21953	21412		195	200	-2.5	25.0
o-Terphenyl	Ave	31076	30672		12.3	12.5	-1.3	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCV 600-91897/11 Calibration Date: 10/24/2012 23:08

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_013.d

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.74	2.62	8.85
C6-C35	11.09	2.62	19.55
>C12-C28	12.65	8.85	16.45
>C28-C35	18.00	16.45	19.55
o-Terphenyl	12.90	12.82	13.02

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_013.d
Lab Smp Id: CCV
Inj Date : 24-OCT-2012 23:08
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : CCV
Misc Info : 063
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:02 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			4079820	200.000	201.0
S	2 Greater than C12-C28	8.850-16.454			3989090	200.000	201.6
S	3 Greater than C28-C35	16.454-19.550			4280677	200.000	195.0
$	4 O-Terphenyl	12.903	12.915	-0.012	383398	12.5000	12.34
S	5 Total C6-C35				12349587	200.000	597.6

Data File: B102412_013.d

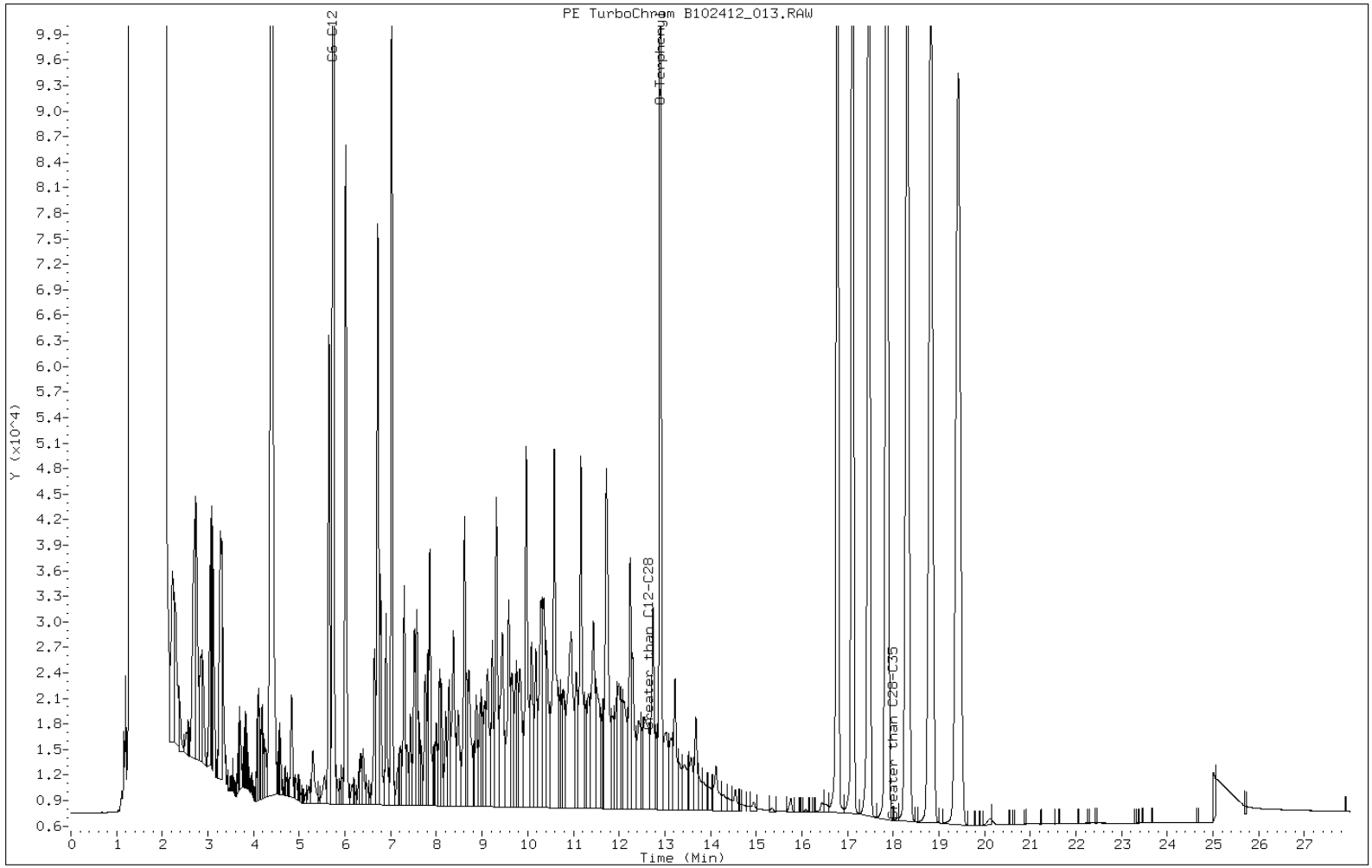
Date: 24-OCT-2012 23:08

Client ID:

Instrument: FID-07.i

Sample Info: CCV

Operator: VanderBorghR



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCV 600-91897/20 Calibration Date: 10/25/2012 04:51

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_023.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C6-C12	Ave	20295	19638		194	200	-3.2	25.0
>C12-C28	Ave	19786	19826		200	200	0.2	25.0
>C28-C35	Ave	21953	21243		194	200	-3.2	25.0
o-Terphenyl	Ave	31076	30745		12.4	12.5	-1.1	30.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: CCV 600-91897/20 Calibration Date: 10/25/2012 04:51

Instrument ID: FID07 Calib Start Date: 10/17/2012 13:25

GC Column: RTX-5 ID: 0.53(mm) Calib End Date: 10/17/2012 16:52

Lab File ID: B102412_023.d

Analyte	RT	RT WINDOW	
		FROM	TO
C6-C12	5.74	2.62	8.85
C6-C35	11.09	2.62	19.55
>C12-C28	12.65	8.85	16.45
>C28-C35	18.00	16.45	19.55
o-Terphenyl	12.90	12.82	13.02

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_023.d
Lab Smp Id: CCV
Inj Date : 25-OCT-2012 04:51
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : CCV
Misc Info : 073
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUPC180

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(ug/mL)
S	1 C6-C12	2.620-8.850			3927505	200.000	193.5
S	2 Greater than C12-C28	8.850-16.454			3965299	200.000	200.4
S	3 Greater than C28-C35	16.454-19.550			4246968	200.000	193.5
$	4 O-Terphenyl	12.903	12.915	-0.012	384309	12.5000	12.37
S	5 Total C6-C35				12139772	200.000	587.4

Data File: B102412_023.d

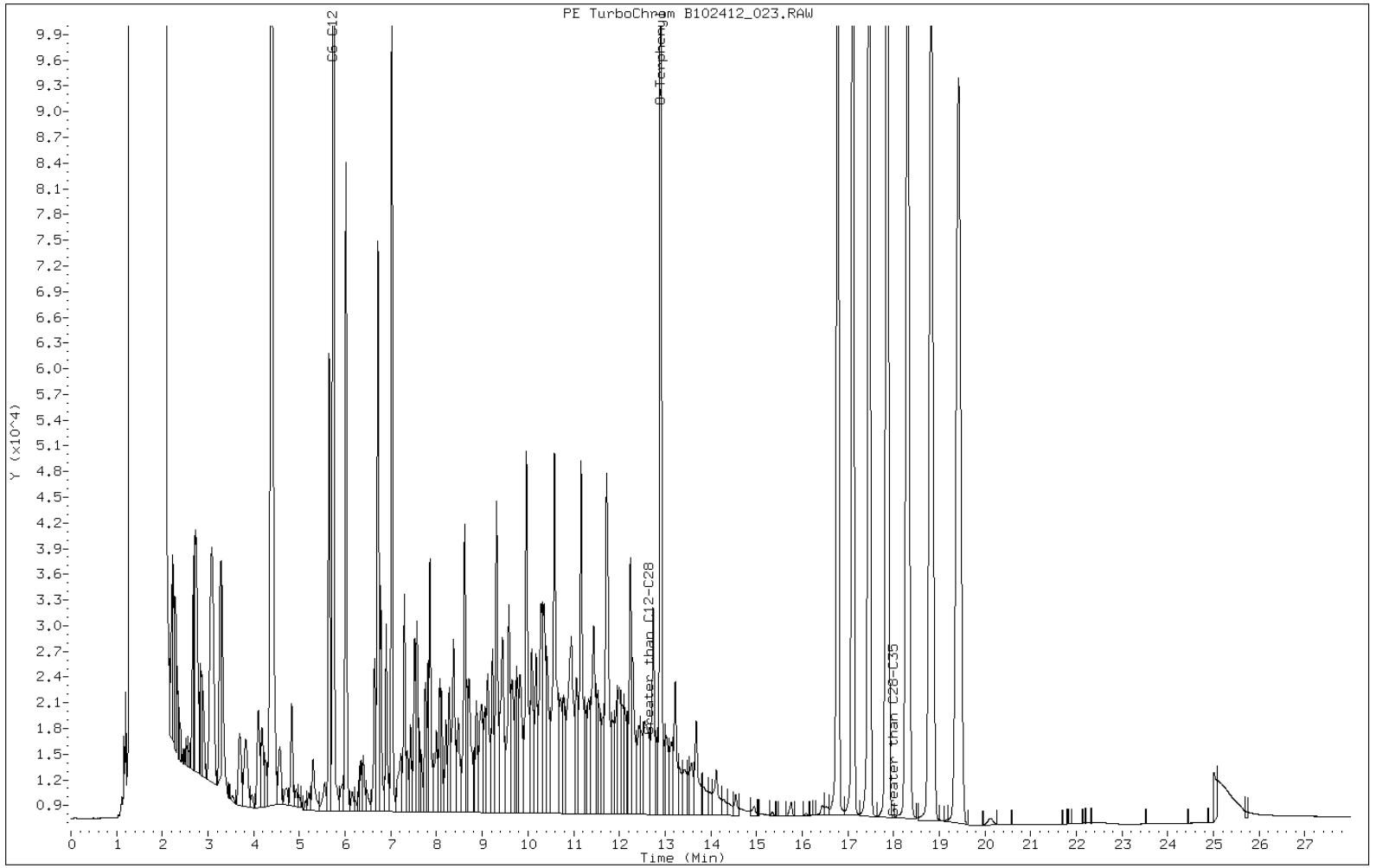
Date: 25-OCT-2012 04:51

Client ID:

Instrument: FID-07.i

Sample Info: CCV

Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 600-91862/1-A

Matrix: Solid Lab File ID: B102412_003.d

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.00(g) Date Analyzed: 10/24/2012 17:26

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	3.80	U	25.0	3.80
STL00035	>C12-C28	4.06	U	25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	7.48	U	25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_003.d
Lab Smp Id: MB 600-91862/1-A
Inj Date : 24-OCT-2012 17:26
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : MB 600-91862/1-A
Misc Info : 053
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Vo * Uf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	3.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Vo	30.000	Sample Volume (mL)
Uf	2.000	Unit Factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/mL)	(mg/L)
$ 4 O-Terphenyl	12.900	12.915	-0.015	344358	11.0813	1.11

Data File: B102412_003.d

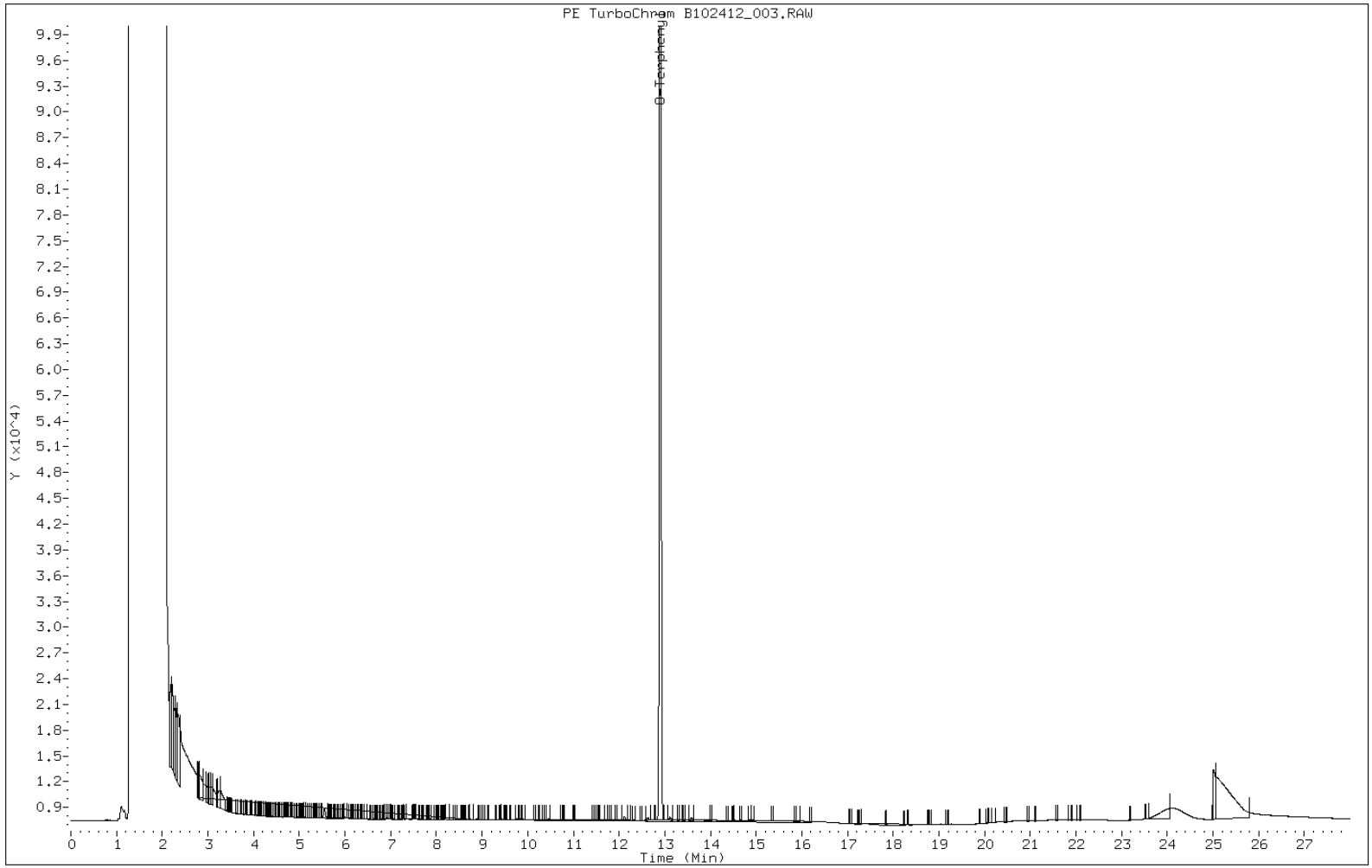
Date: 24-OCT-2012 17:26

Client ID:

Instrument: FID-07.i

Sample Info: MB 600-91862/1-A

Operator: VanderBorghR



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 600-91862/2-A

Matrix: Solid Lab File ID: B102412_004.d

Analysis Method: TX 1005 Date Collected:

Extraction Method: TX_1005_S_Prep Date Extracted: 10/24/2012 14:48

Sample wt/vol: 10.00(g) Date Analyzed: 10/24/2012 18:00

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 91897 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	MQL	MDL
STL00061	C6-C12	264.1		25.0	3.80
STL00035	>C12-C28	247.1		25.0	4.06
STL00147	>C28-C35	4.06	U	25.0	4.06
STL00006	C6-C35	511.2		25.0	7.48

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		70-130

TestAmerica Laboratories-Houston

Data file : \\housvr4\chem\FID-07.i\102412B.b\B102412_004.d
Lab Smp Id: LCS 600-91862/2-A
Inj Date : 24-OCT-2012 18:00
Operator : VanderBorghR Inst ID: FID-07.i
Smp Info : LCS 600-91862/2-A
Misc Info : 054
Comment :
Method : \\housvr4\chem\FID-07.i\102412B.b\1005B.m
Meth Date : 25-Oct-2012 08:03 FID-07.i Quant Type: ESTD
Cal Date : 17-OCT-2012 16:52 Cal File: B101612_022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TNRCC1005.sub
Target Version: 4.14
Processing Host: HOUSVR3

Concentration Formula: Amt * DF * Vt * Vi/(Vo * Uf) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	3.000	Concentrated Extract Volume (mL)
Vi	2.000	Injection Volume
Vo	30.000	Sample Volume (mL)
Uf	2.000	Unit Factor
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/mL)	(mg/L)
S 1 C6-C12	2.620-8.850			5360816		264.142	26.41
S 2 Greater than C12-C28	8.850-16.454			4888489		247.066	24.71
$ 4 O-Terphenyl	12.903	12.915	-0.012	421125		13.5516	1.36
S 5 Total C6-C35				10249305		511.208	51.12

Data File: B102412_004.d

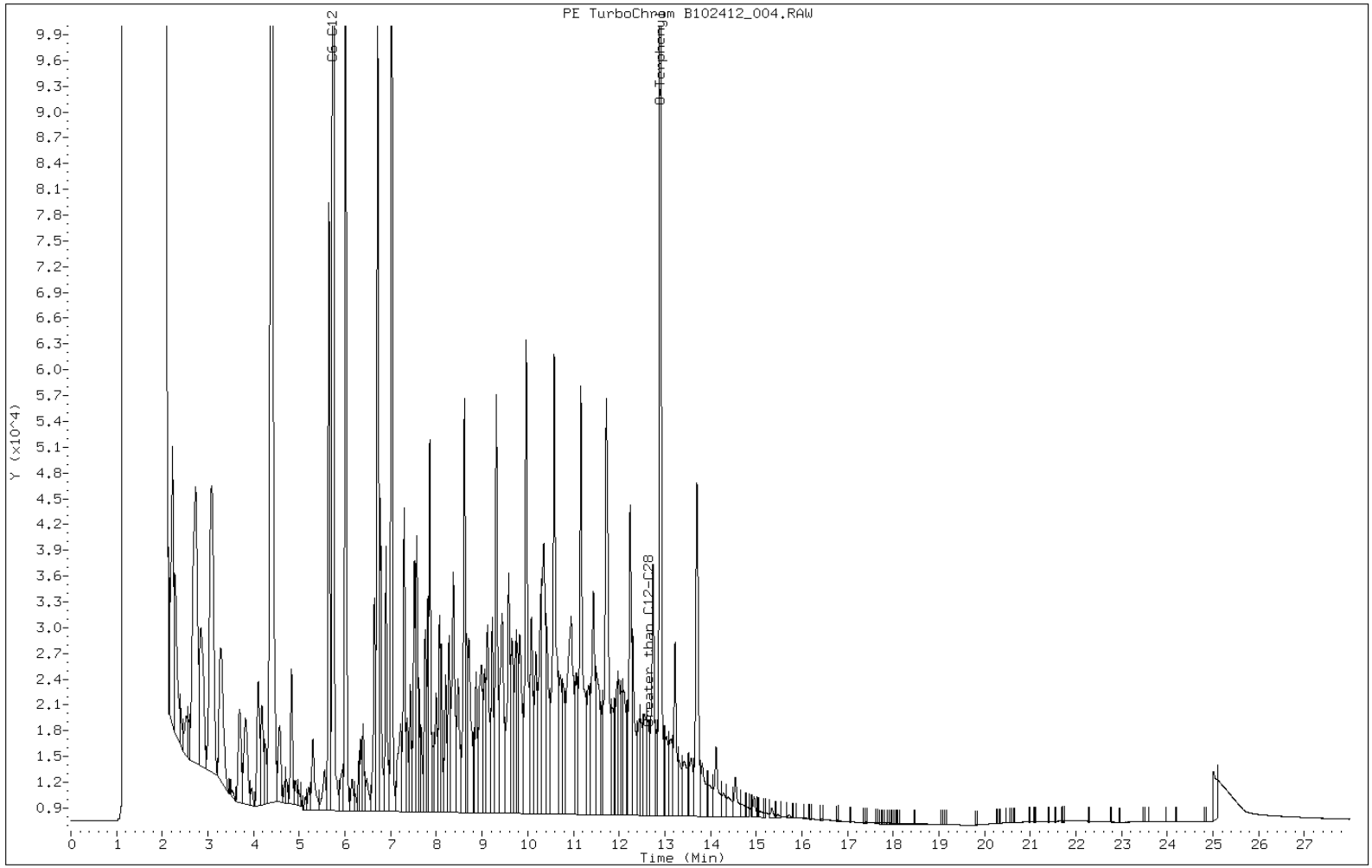
Date: 24-OCT-2012 18:00

Client ID:

Instrument: FID-07.i

Sample Info: LCS 600-91862/2-A

Operator: VanderBorghR



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: FID07 Start Date: 10/17/2012 13:25

Analysis Batch Number: 91371 End Date: 10/17/2012 17:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 600-91371/1		10/17/2012 13:25	1	B101612_016.d	RTX-5 0.53(mm)
IC 600-91371/2		10/17/2012 14:00	1	B101612_017.d	RTX-5 0.53(mm)
IC 600-91371/3		10/17/2012 14:34	1	B101612_018.d	RTX-5 0.53(mm)
ICRT 600-91371/4		10/17/2012 15:08	1	B101612_019.d	RTX-5 0.53(mm)
IC 600-91371/5		10/17/2012 15:43	1	B101612_020.d	RTX-5 0.53(mm)
IC 600-91371/6		10/17/2012 16:17	1	B101612_021.d	RTX-5 0.53(mm)
IC 600-91371/7		10/17/2012 16:52	1	B101612_022.d	RTX-5 0.53(mm)
ICV 600-91371/8		10/17/2012 17:26	1		RTX-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: FID07 Start Date: 10/24/2012 16:52

Analysis Batch Number: 91897 End Date: 10/25/2012 09:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 600-91897/1		10/24/2012 16:52	1	B102412_002.d	RTX-5 0.53(mm)
MB 600-91862/1-A		10/24/2012 17:26	1	B102412_003.d	RTX-5 0.53(mm)
LCS 600-91862/2-A		10/24/2012 18:00	1	B102412_004.d	RTX-5 0.53(mm)
600-63252-1	2012-FWFS-3-Wall	10/24/2012 18:35	1	B102412_005.d	RTX-5 0.53(mm)
600-63252-2	2012-FWFS-3-Floor	10/24/2012 19:09	1	B102412_006.d	RTX-5 0.53(mm)
600-63252-3	2012-FWFS-2-Wall	10/24/2012 19:43	1	B102412_007.d	RTX-5 0.53(mm)
600-63252-4	2012-FWFS-2-Floor	10/24/2012 20:17	1	B102412_008.d	RTX-5 0.53(mm)
600-63252-5	2012-FWFS-1-Floor	10/24/2012 20:51	1	B102412_009.d	RTX-5 0.53(mm)
600-63252-6	2012-FWFS-1-Wall	10/24/2012 21:25	1	B102412_010.d	RTX-5 0.53(mm)
ZZZZZ		10/24/2012 21:59	1		RTX-5 0.53(mm)
CCV 600-91897/11		10/24/2012 23:08	1	B102412_013.d	RTX-5 0.53(mm)
ZZZZZ		10/24/2012 23:42	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 00:17	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 00:51	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 01:25	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 01:59	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 02:34	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 03:08	1		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 03:42	1		RTX-5 0.53(mm)
CCV 600-91897/20		10/25/2012 04:51	1	B102412_023.d	RTX-5 0.53(mm)
ZZZZZ		10/25/2012 08:39	50		RTX-5 0.53(mm)
ZZZZZ		10/25/2012 09:18	5		RTX-5 0.53(mm)
CCV 600-91897/23		10/25/2012 09:52	1		RTX-5 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Batch Number: 91862 Batch Start Date: 10/24/12 14:48 Batch Analyst: Vo Pham, Ngoc-Ly

Batch Method: TX_1005_S_Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TX1005LCS 00054	TX1005SURR 00081		
MB 600-91862/1		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL		250 uL		
LCS 600-91862/2		TX_1005_S_Prep, TX 1005		10.00 g	10.00 mL	250 uL	250 uL		
600-63252-B-1	2012-FWFS-3-Wall	TX_1005_S_Prep, TX 1005	T	10.04 g	10.00 mL		250 uL		
600-63252-B-2	2012-FWFS-3-Floor	TX_1005_S_Prep, TX 1005	T	10.01 g	10.00 mL		250 uL		
600-63252-B-3	2012-FWFS-2-Wall	TX_1005_S_Prep, TX 1005	T	10.05 g	10.00 mL		250 uL		
600-63252-B-4	2012-FWFS-2-Floor	TX_1005_S_Prep, TX 1005	T	10.04 g	10.00 mL		250 uL		
600-63252-B-5	2012-FWFS-1-Floor	TX_1005_S_Prep, TX 1005	T	10.06 g	10.00 mL		250 uL		
600-63252-B-6	2012-FWFS-1-Wall	TX_1005_S_Prep, TX 1005	T	10.04 g	10.00 mL		250 uL		

Batch Notes	
Vendor lot number	Pentane-00008
Solvent	Pentane

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Houston Job Number: 600-63252-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-3-Wall	600-63252-1
2012-FWFS-3-Floor	600-63252-2
2012-FWFS-2-Wall	600-63252-3
2012-FWFS-2-Floor	600-63252-4
2012-FWFS-1-Floor	600-63252-5
2012-FWFS-1-Floor	600-63252-5 DL
2012-FWFS-1-Wall	600-63252-6
2012-FWFS-1-Wall	600-63252-6 DL

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-3-Wall
Lab Sample ID: 600-63252-1
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:10
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 78.2

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.264	0.317	0.0325	mg/Kg	J		1	6010B
7439-92-1	Lead	32.2	0.633	0.133	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-3-Floor
Lab Sample ID: 600-63252-2
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:19
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 75.1

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.266	0.317	0.0325	mg/Kg	J		1	6010B
7439-92-1	Lead	32.5	0.634	0.133	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-2-Wall
Lab Sample ID: 600-63252-3
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:24
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 79.6

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.268	0.296	0.0304	mg/Kg	J		1	6010B
7439-92-1	Lead	12.5	0.592	0.124	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-2-Floor
Lab Sample ID: 600-63252-4
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:35
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 74.9

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.106	0.334	0.0343	mg/Kg	J		1	6010B
7439-92-1	Lead	17.5	0.668	0.140	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-1-Floor
Lab Sample ID: 600-63252-5
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:48
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 93.9

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	143	0.247	0.0253	mg/Kg			1	6010B
7439-92-1	Lead	4410	4.93	1.03	mg/Kg			10	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 2012-FWFS-1-Wall
Lab Sample ID: 600-63252-6
Lab Name: TestAmerica Houston
Job No.: 600-63252-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/22/2012 10:52
Reporting Basis: DRY
Date Received: 10/23/2012 09:46
% Solids: 76.1

CAS No.	Analyte	Result	MQL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	4.65	0.310	0.0318	mg/Kg			1	6010B
7439-92-1	Lead	22900	6.20	1.30	mg/Kg			10	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

ICV Source: MET1012CCV_00005 Concentration Units: mg/L

CCV Source: MET1012CCV_00005

Analyte	ICV 600-91911/9 10/25/2012 09:02				CCV 600-91911/79 10/25/2012 11:59				CCV 600-91911/86 10/25/2012 12:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.4776		0.500	96	0.4634		0.500	93	0.4584		0.500	92
Cadmium	0.4839		0.500	97	0.4944		0.500	99	0.4927		0.500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

ICV Source: MET1012CCV_00006 Concentration Units: mg/L

CCV Source: MET1012CCV_00006

Analyte	ICV 600-91914/4 10/25/2012 08:47				CCV 600-91914/9 10/25/2012 09:06				CCV 600-91914/21 10/25/2012 09:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.4971		0.500	99	0.4871		0.500	97	0.4833		0.500	97
Lead	0.4961		0.500	99	0.4856		0.500	97	0.4781		0.500	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

ICV Source: MET1012CCV_00006 Concentration Units: mg/L

CCV Source: MET1012CCV_00006

Analyte	CCV 600-91914/33 10/25/2012 10:38				CCV 600-91914/44 10/25/2012 11:20							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.4882		0.500	98	0.4919		0.500	98				
Lead	0.4800		0.500	96	0.4795		0.500	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Method: 6010B Instrument ID: TJA1

Lab Sample ID: CRI 600-91914/6 Concentration Units: mg/L

CRQL Check Standard Source: MET0912LOW_00006

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cadmium	0.00500	0.004990	J	100	0-500
Lead	0.0100	0.009810	J	98	0-500

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-91911/11 10/25/2012 09:07		CCB 600-91911/81 10/25/2012 12:04		CCB 600-91911/88 10/25/2012 12:52			
		Found	C	Found	C	Found	C	Found	C
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U		
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 600-91914/5 10/25/2012 08:50		CCB 600-91914/10 10/25/2012 09:10		CCB 600-91914/22 10/25/2012 09:56		CCB 600-91914/34 10/25/2012 10:42	
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U	0.000730	U	0.000730	U	0.000730	U
Lead	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 600-91914/45 10/25/2012 11:24							
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.00500	0.000730	U						
Lead	0.0100	0.00290	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 600-91839/1-A

Instrument Code: TJA1 Batch No.: 91914

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	0.0256	U		6010B
7439-92-1	Lead	0.105	U		6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSA 600-91911/12 Instrument ID: Thermo6500

Lab File ID: A102512.asc ICS Source: METISA_00080

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.0107**	
Aluminum	*500*	*522*	*104*
Antimony		*-0.0122*	
Arsenic		*-0.0077*	
Barium		*0.0002*	
Beryllium		*0.0001*	
Boron		*-0.0026*	
Cadmium		*0.0002*	
Calcium	*500*	*487*	*97*
Chromium		*0.0025*	
Cobalt		*-0.0006*	
Copper		*0.0043*	
Iron	*200*	*193*	*97*
Lithium		*0.0170*	
Magnesium	*500*	*505*	*101*
Manganese		*-0.0052*	
Molybdenum		*-0.0003*	
Nickel		*0.0065*	
Potassium		*-0.0951*	
Selenium		*0.0028*	
Silicon		*0.0016*	
Silver		*0.0027*	
Sodium		*0.0188*	
Strontium		*0.0021*	
Thallium		*-0.0070*	
Tin		*0.0087*	
Titanium		*0.0037*	
Vanadium		*0.0001*	
Zinc		*0.0033*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSAB 600-91911/13 Instrument ID: Thermo6500

Lab File ID: A102512.asc ICS Source: METISB_00082

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Lead	**1.00**	**0.992**	**99**
Aluminum	*510*	*538*	*106*
Antimony	*1.00*	*0.974*	*97*
Arsenic	*1.00*	*1.02*	*102*
Barium	*1.00*	*0.992*	*99*
Beryllium	*0.500*	*0.488*	*98*
Boron	*1.00*	*1.00*	*100*
Cadmium	*0.500*	*0.510*	*102*
Calcium	*510*	*504*	*99*
Chromium	*1.00*	*0.956*	*96*
Cobalt	*1.00*	*1.01*	*101*
Copper	*1.00*	*1.04*	*104*
Iron	*210*	*206*	*98*
Lithium	*1.00*	*1.07*	*107*
Magnesium	*510*	*508*	*100*
Manganese	*1.00*	*0.955*	*95*
Molybdenum	*1.00*	*0.944*	*94*
Nickel	*1.00*	*1.02*	*102*
Potassium	*10.0*	*10.4*	*104*
Selenium	*1.00*	*1.01*	*101*
Silicon	*1.00*	*1.02*	*102*
Silver	*0.500*	*0.537*	*107*
Sodium	*10.0*	*10.5*	*105*
Strontium	*0.500*	*0.503*	*101*
Thallium	*1.00*	*0.901*	*90*
Tin	*1.00*	*1.02*	*102*
Titanium	*1.00*	*0.976*	*98*
Vanadium	*1.00*	*0.971*	*97*
Zinc	*1.00*	*1.05*	*105*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSAB 600-91911/84 Instrument ID: Thermo6500

Lab File ID: A102512.asc ICS Source: METISB_00082

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Lead	**1.00**	**0.967**	**97**
Aluminum	*510*	*529*	*104*
Antimony	*1.00*	*1.04*	*104*
Arsenic	*1.00*	*1.08*	*108*
Barium	*1.00*	*1.00*	*100*
Beryllium	*0.500*	*0.483*	*97*
Boron	*1.00*	*0.964*	*96*
Cadmium	*0.500*	*0.524*	*105*
Calcium	*510*	*552*	*108*
Chromium	*1.00*	*0.977*	*98*
Cobalt	*1.00*	*0.937*	*94*
Copper	*1.00*	*1.10*	*110*
Iron	*210*	*202*	*96*
Lithium	*1.00*	*1.09*	*109*
Magnesium	*510*	*489*	*96*
Manganese	*1.00*	*1.12*	*112*
Molybdenum	*1.00*	*1.16*	*116*
Nickel	*1.00*	*1.00*	*100*
Potassium	*10.0*	*10.2*	*102*
Selenium	*1.00*	*1.10*	*110*
Silicon	*1.00*	*1.06*	*106*
Silver	*0.500*	*0.659*	*132*
Sodium	*10.0*	*10.8*	*108*
Strontium	*0.500*	*0.527*	*105*
Thallium	*1.00*	*0.810*	*81*
Tin	*1.00*	*1.14*	*114*
Titanium	*1.00*	*0.952*	*95*
Vanadium	*1.00*	*1.04*	*104*
Zinc	*1.00*	*0.977*	*98*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSA 600-91911/85 Instrument ID: Thermo6500

Lab File ID: A102512.asc ICS Source: METISA_00080

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.0073**	
Aluminum	*500*	*509*	*102*
Antimony		*-0.0085*	
Arsenic		*-0.0097*	
Barium		*0.0004*	
Beryllium		*0.0001*	
Boron		*-0.0022*	
Cadmium		*0.0005*	
Calcium	*500*	*529*	*106*
Chromium		*0.0027*	
Cobalt		*-0.0001*	
Copper		*0.0073*	
Iron	*200*	*190*	*95*
Lithium		*0.0168*	
Magnesium	*500*	*475*	*95*
Manganese		*-0.0044*	
Molybdenum		*0.0014*	
Nickel		*0.0060*	
Potassium		*-0.0455*	
Selenium		*0.0030*	
Silicon		*0.0013*	
Silver		*-0.0033*	
Sodium		*0.350*	
Strontium		*0.0022*	
Thallium		*0.0024*	
Tin		*0.0063*	
Titanium		*0.0029*	
Vanadium		*0.0000*	
Zinc		*0.0035*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSA 600-91914/7 Instrument ID: TJA1

Lab File ID: A102512 ICS Source: METISA_00081

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**-0.0024**	
Lead		**0.0107**	
Aluminum	*500*	*485*	*97*
Antimony		*0.0038*	
Arsenic		*0.0004*	
Barium		*0.0016*	
Beryllium		*-0.0002*	
Boron		*0.0005*	
Calcium	*500*	*457*	*91*
Chromium		*0.0019*	
Cobalt		*-0.0006*	
Copper		*0.0136*	
Iron	*200*	*196*	*98*
Lithium		*0.0034*	
Magnesium	*500*	*514*	*103*
Manganese		*-0.0059*	
Molybdenum		*-0.0004*	
Nickel		*-0.0002*	
Potassium		*0.221*	
Selenium		*-0.0086*	
Silicon		*0.0144*	
Silver		*0.0003*	
Sodium		*0.187*	
Strontium		*-0.0090*	
Thallium		*-0.0406*	
Tin		*-0.0010*	
Titanium		*-0.0021*	
Vanadium		*0.0041*	
Zinc		*0.0003*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Lab Sample ID: ICSAB 600-91914/8 Instrument ID: TJA1

Lab File ID: A102512 ICS Source: METISB_00083

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.468**	**94**
Lead	**1.00**	**0.975**	**98**
Aluminum	*510*	*494*	*97*
Antimony	*1.00*	*1.03*	*103*
Arsenic	*1.00*	*1.02*	*102*
Barium	*1.00*	*1.03*	*103*
Beryllium	*0.500*	*0.498*	*100*
Boron	*1.00*	*1.03*	*103*
Calcium	*510*	*461*	*90*
Chromium	*1.00*	*0.979*	*98*
Cobalt	*1.00*	*0.964*	*96*
Copper	*1.00*	*1.09*	*109*
Iron	*210*	*204*	*97*
Lithium	*0.500*	*0.572*	*114*
Magnesium	*510*	*521*	*102*
Manganese	*1.00*	*0.973*	*97*
Molybdenum	*1.00*	*1.02*	*102*
Nickel	*1.00*	*0.943*	*94*
Potassium	*10.0*	*14.0*	*140*
Selenium	*1.00*	*1.01*	*101*
Silicon	*1.00*	*0.980*	*98*
Silver	*0.500*	*0.546*	*109*
Sodium	*10.0*	*13.1*	*131*
Strontium	*0.500*	*0.495*	*99*
Thallium	*1.00*	*0.935*	*94*
Tin	*1.00*	*1.01*	*101*
Titanium	*1.00*	*1.01*	*101*
Vanadium	*1.00*	*1.00*	*100*
Zinc	*1.00*	*1.02*	*102*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 600-91839/2-B

Lab Name: TestAmerica Houston Job No.: 600-63252-1

Sample Matrix: Solid LCS Source: METSLCSS_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	103	105.8		102.7	83.6	115.5		6010B
Lead	76.9	78.14		101.6	81.3	118.7		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-63252-1

SDG Number:

Matrix: Solid Instrument ID: Thermo6500

Method: 6010B XMDL Date: 05/15/2008 13:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead		0.01	0.0029

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Houston Job Number: 600-63252-1

SDG Number:

Matrix: Solid Instrument ID: TJA1

Method: 6010B XMDL Date: 05/15/2008 13:46

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cadmium		0.005	0.00073
Lead		0.01	0.0029

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Houston Job No: 600-63252-1

SDG No.:

Instrument ID: TJA1 Date: 03/14/2006 13:24

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Cadmium		25	6010B
Lead		50	6010B

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-91839/1-A	10/24/2012 12:17	91839	1.00		50
LCSSRM 600-91839/2-B	10/24/2012 12:17	91839	0.50		50
600-63252-1	10/24/2012 12:17	91839	1.01		50
600-63252-2	10/24/2012 12:17	91839	1.05		50
600-63252-3	10/24/2012 12:17	91839	1.06		50
600-63252-4	10/24/2012 12:17	91839	1.00		50
600-63252-5	10/24/2012 12:17	91839	1.08		50
600-63252-5 DL	10/24/2012 12:17	91839	1.08		50
600-63252-6	10/24/2012 12:17	91839	1.06		50
600-63252-6 DL	10/24/2012 12:17	91839	1.06		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 10/25/2012 08:44 End Date: 10/25/2012 12:52

Lab Sample ID	D/F	Type	Time	Analytes																				
				Pb																				
RINSE 600-91911/1			08:44																					
RINSE 600-91911/2			08:46																					
ZZZZZZ			08:49																					
ZZZZZZ			08:51																					
CALIBSTD 600-91911/5 IC			08:53	X																				
CALIBSTD 600-91911/6 IC			08:56	X																				
CALIBSTD 600-91911/7 IC			08:58	X																				
CALIBSTD 600-91911/8 IC			09:00	X																				
ICV 600-91911/9	1		09:02	X																				
ZZZZZZ			09:04																					
ICBIS 600-91911/11	1		09:07	X																				
ICSA 600-91911/12	1		09:09	X																				
ICSAB 600-91911/13	1		09:12	X																				
CCV 600-91911/14			09:14																					
ZZZZZZ			09:16																					
CCB 600-91911/16			09:18																					
ZZZZZZ			09:21																					
ZZZZZZ			09:23																					
ZZZZZZ			09:25																					
ZZZZZZ			09:28																					
ZZZZZZ			09:30																					
ZZZZZZ			09:33																					
ZZZZZZ			09:35																					
ZZZZZZ			09:37																					
ZZZZZZ			09:39																					
ZZZZZZ			09:42																					
CCV 600-91911/27			09:45																					
ZZZZZZ			09:47																					
CCB 600-91911/29			09:50																					
ZZZZZZ			09:52																					
ZZZZZZ			09:54																					
ZZZZZZ			09:59																					
ZZZZZZ			10:05																					
ZZZZZZ			10:10																					
ZZZZZZ			10:14																					
ZZZZZZ			10:16																					
ZZZZZZ			10:19																					
ZZZZZZ			10:21																					
ZZZZZZ			10:24																					
CCV 600-91911/40			10:26																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 10/25/2012 08:44 End Date: 10/25/2012 12:52

Lab Sample ID	D / F	Type	Time	Analytes																				
				Pb																				
ZZZZZZ			10:28																					
CCB 600-91911/42			10:31																					
ZZZZZZ			10:33																					
ZZZZZZ			10:35																					
ZZZZZZ			10:38																					
ZZZZZZ			10:40																					
ZZZZZZ			10:43																					
ZZZZZZ			10:45																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:52																					
ZZZZZZ			10:54																					
CCV 600-91911/53			10:57																					
ZZZZZZ			10:59																					
CCB 600-91911/55			11:01																					
ZZZZZZ			11:06																					
ZZZZZZ			11:08																					
ZZZZZZ			11:10																					
ZZZZZZ			11:13																					
ZZZZZZ			11:15																					
ZZZZZZ			11:18																					
ZZZZZZ			11:20																					
ZZZZZZ			11:22																					
ZZZZZZ			11:25																					
ZZZZZZ			11:27																					
CCV 600-91911/66			11:29																					
ZZZZZZ			11:31																					
CCB 600-91911/68			11:34																					
ZZZZZZ			11:36																					
ZZZZZZ			11:38																					
ZZZZZZ			11:41																					
ZZZZZZ			11:43																					
ZZZZZZ			11:45																					
ZZZZZZ			11:48																					
ZZZZZZ			11:50																					
ZZZZZZ			11:52																					
ZZZZZZ			11:55																					
ZZZZZZ			11:57																					
CCV 600-91911/79	1		11:59	X																				
ZZZZZZ			12:01																					
CCB 600-91911/81	1		12:04	X																				
600-63252-5 DL	10	T	12:06	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: Thermo6500 Method: 6010B

Start Date: 10/25/2012 08:44 End Date: 10/25/2012 12:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
600-63252-6 DL	10	T	12:08	X																			
ICSAB 600-91911/84	1		12:11	X																			
ICSA 600-91911/85	1		12:13	X																			
CCV 600-91911/86	1		12:48	X																			
ZZZZZZ			12:50																				
CCB 600-91911/88	1		12:52	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/25/2012 08:30 End Date: 10/25/2012 16:18

Lab Sample ID	D/F	Type	Time	Analytes																					
				Cd	Pb																				
ZZZZZZ			08:30																						
STD 600-91914/2 IC			08:34	X	X																				
ZZZZZZ			08:43																						
ICV 600-91914/4	1		08:47	X	X																				
ICBIS 600-91914/5	1		08:50	X	X																				
CRI 600-91914/6	1		08:54	X	X																				
ICSA 600-91914/7	1		08:58	X	X																				
ICSAB 600-91914/8	1		09:02	X	X																				
CCV 600-91914/9	1		09:06	X	X																				
CCB 600-91914/10	1		09:10	X	X																				
MB 600-91839/1-A	1	T	09:13	X	X																				
LCSSRM 600-91839/2-B	1	T	09:17	X	X																				
ZZZZZZ			09:21																						
ZZZZZZ			09:25																						
ZZZZZZ			09:29																						
ZZZZZZ			09:33																						
ZZZZZZ			09:37																						
ZZZZZZ			09:40																						
ZZZZZZ			09:44																						
ZZZZZZ			09:48																						
CCV 600-91914/21	1		09:52	X	X																				
CCB 600-91914/22	1		09:56	X	X																				
ZZZZZZ			10:00																						
600-63252-1	1	T	10:04	X	X																				
600-63252-2	1	T	10:07	X	X																				
600-63252-3	1	T	10:11	X	X																				
600-63252-4	1	T	10:15	X	X																				
600-63252-5	1	T	10:19	X																					
600-63252-6	1	T	10:23	X																					
ZZZZZZ			10:27																						
ZZZZZZ			10:30																						
ZZZZZZ			10:34																						
CCV 600-91914/33	1		10:38	X	X																				
CCB 600-91914/34	1		10:42	X	X																				
ZZZZZZ			10:46																						
ZZZZZZ			10:50																						
ZZZZZZ			10:54																						
ZZZZZZ			10:57																						
ZZZZZZ			11:01																						
ZZZZZZ			11:05																						
ZZZZZZ			11:09																						
ZZZZZZ			11:13																						

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/25/2012 08:30 End Date: 10/25/2012 16:18

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			11:17																					
CCV 600-91914/44	1		11:20	X	X																			
CCB 600-91914/45	1		11:24	X	X																			
ZZZZZZ			11:32																					
ZZZZZZ			11:36																					
ZZZZZZ			11:40																					
ZZZZZZ			11:44																					
ZZZZZZ			11:48																					
ZZZZZZ			11:52																					
ZZZZZZ			11:56																					
ZZZZZZ			11:59																					
ZZZZZZ			12:03																					
ZZZZZZ			12:07																					
CCV 600-91914/56			12:11																					
CCB 600-91914/57			12:15																					
ZZZZZZ			12:19																					
ZZZZZZ			12:23																					
ZZZZZZ			12:26																					
ZZZZZZ			12:30																					
ZZZZZZ			12:34																					
ZZZZZZ			12:38																					
ZZZZZZ			12:42																					
ZZZZZZ			12:46																					
ZZZZZZ			12:49																					
ZZZZZZ			12:53																					
CCV 600-91914/68			12:57																					
CCB 600-91914/69			13:01																					
ZZZZZZ			13:05																					
ZZZZZZ			13:09																					
ZZZZZZ			13:13																					
ZZZZZZ			13:16																					
ZZZZZZ			13:20																					
ZZZZZZ			13:24																					
ZZZZZZ			13:28																					
ZZZZZZ			13:32																					
ZZZZZZ			13:36																					
ZZZZZZ			13:40																					
CCV 600-91914/80			13:43																					
CCB 600-91914/81			13:47																					
ZZZZZZ			15:06																					
ZZZZZZ			15:10																					
ZZZZZZ			15:13																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: TJA1 Method: 6010B

Start Date: 10/25/2012 08:30 End Date: 10/25/2012 16:18

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cd	Pb																			
ZZZZZZ			15:17																					
ZZZZZZ			15:21																					
ZZZZZZ			15:25																					
ZZZZZZ			15:29																					
ZZZZZZ			15:33																					
ZZZZZZ			15:41																					
ZZZZZZ			15:44																					
CCV 600-91914/92			15:48																					
CCB 600-91914/93			15:52																					
ZZZZZZ			15:56																					
ZZZZZZ			16:00																					
CCV 600-91914/96			16:04																					
CCB 600-91914/97			16:08																					
ZZZZZZ			16:14																					
ZZZZZZ			16:18																					

Prep Types

T = Total/NA

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:44:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0008,.0002,23.88, -.0010, -.0007
Al3082,308.215 {109},In2306,ppm, .0159,.0217,136.8, .0005, .0313
As1890,189.042 {478},Y_2243,ppm, -.0006,.0016,262.8, .0005, -.0018
B_2496,249.678 {135},Y_3710,ppm, .0040,.0007,16.77, .0044, .0035
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,168.2, .0000, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,24.32, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0148,.0066,44.79, .0194, .0101
Ca3181,318.128 {106},In2306,ppm, .0244,.0161,66.04, .0130, .0358
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,611.1, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,115.5, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0002,.0001,53.14, -.0001, -.0003
Cu3247,324.754 {104},Y_3600,ppm, .0004,.0000,3.145, .0004, .0004
Fe2404,240.488 {140},In2306,ppm, -.0011,.0014,127.4, -.0022, -.0001
K_7664,766.490 { 44},Y_3710,ppm, -.0061,.0004,7.306, -.0064, -.0058
K_7698,769.896 { 44},Y_3710,ppm, .0315,.0452,143.2, .0635, -.0004
Li6707,670.784 { 50},Y_3710,ppm, .0002,.0008,517.7, -.0004, .0007
Mg2790,279.079 {121},Y_3710,ppm, .0124,.0122,98.65, .0037, .0210
Mn2576,257.610 {131},Y_3600,ppm, .0002,.0000,11.69, .0002, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0005,111.4, .0001, .0008
Mo2020,202.030 {467},Y_2243,ppm, .0009,.0008,82.93, .0004, .0015
Na5895,589.592 { 57},Y_3710,ppm, -.0132,.0047,35.83, -.0165, -.0098
Na8183,818.326 { 41},Y_3710,ppm, .0762,.0752,98.79, .1294, .0230
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,198.6, .0000, .0001
P_1782,178.284 {489},In2306,ppm, -.0019,.0002,10.26, -.0017, -.0020
Pb2203,220.353 {453},In2306,ppm, -.0015,.0007,46.11, -.0020, -.0010
S_1820,182.034 {485},Y_2243,ppm, .2516,.0891,35.40, .1886, .3146
Sb2068,206.833 {463},Y_2243,ppm, .0015,.0023,154.5, -.0001, .0031
Se1960,196.090 {472},Y_2243,ppm, .0000,.0012,14480., -.0008, .0008
Si2516,251.611 {134},Y_3710,ppm, .0094,.0056,59.72, .0134, .0054
Sn1899,189.989 {477},In2306,ppm, .0002,.0002,83.49, .0001, .0003
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,190.3, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0002,58.73, .0002, .0006
Tl1908,190.856 {477},In2306,ppm, .0027,.0034,124.9, .0003, .0051
V_2924,292.402 {115},Y_3600,ppm, .0007,.0001,13.59, .0006, .0007
Zn2062,206.200 {463},In2306,ppm, .0052,.0001,.9785, .0052, .0052

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 902.14,1.3396,.14849,903.09,901.20
In2306,230.606 {446},Cts/S, 16555.,26.339,.15911,16536.,16573.
Y_2243,224.306 {450},Cts/S, 26682.,41.489,.15549,26653.,26712.
Y_3600,360.073 { 94},Cts/S, 211350.,746.23,.35308,211880.,210820.
Y_3710,371.030 { 91},Cts/S, 48258.,30.972,.06418,48236.,48280.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)

SampleName=Rinse
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:46:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0009,.0008,84.11, -.0004, -.0015
Al3082,308.215 {109},In2306,ppm, -.0058,.0062,107.8, -.0102, -.0014
As1890,189.042 {478},Y_2243,ppm, -.0008,.0001,17.67, -.0007, -.0009
B_2496,249.678 {135},Y_3710,ppm, .0027,.0032,116.8, .0050, .0005
Ba4554,455.403 { 74},Y_3710,ppm, -.0001,.0001,65.49, -.0002, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,4091., .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0312,.0013,4.280, .0321, .0302
Ca3181,318.128 {106},In2306,ppm, -.0042,.0086,202.3, .0018, -.0103
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,168.4, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,208.9, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, .0000,.0002,757.5, .0001, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0009,.0001,5.695, .0010, .0009
Fe2404,240.488 {140},In2306,ppm, .0015,.0012,80.08, .0024, .0007
K_7664,766.490 { 44},Y_3710,ppm, -.0145,.0268,184.9, .0045, -.0334
K_7698,769.896 { 44},Y_3710,ppm, .0108,.0216,200.9, -.0045, .0261
Li6707,670.784 { 50},Y_3710,ppm, .0008,.0002,26.66, .0010, .0007
Mg2790,279.079 {121},Y_3710,ppm, .0154,.0076,49.03, .0101, .0208
Mn2576,257.610 {131},Y_3600,ppm, .0002,.0001,30.69, .0003, .0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0002,39.52, .0007, .0004
Mo2020,202.030 {467},Y_2243,ppm, -.0002,.0002,86.06, -.0003, -.0001
Na5895,589.592 { 57},Y_3710,ppm, .0070,.0055,79.23, .0031, .0109
Na8183,818.326 { 41},Y_3710,ppm, .0808,.0279,34.58, .0611, .1006
Ni2316,231.604 {445},In2306,ppm, .0000,.0000,92.37, .0000, .0001
P_1782,178.284 {489},In2306,ppm, -.0007,.0007,100.5, -.0012, -.0002
Pb2203,220.353 {453},In2306,ppm, -.0007,.0003,49.02, -.0009, -.0004
S_1820,182.034 {485},Y_2243,ppm, .0960,.0601,62.54, .1385, .0536
Sb2068,206.833 {463},Y_2243,ppm, .0004,.0008,229.2, .0010, -.0002
Se1960,196.090 {472},Y_2243,ppm, -.0008,.0003,34.27, -.0010, -.0006
Si2516,251.611 {134},Y_3710,ppm, .0041,.0018,44.68, .0028, .0054
Sn1899,189.989 {477},In2306,ppm, .0000,.0005,1141., .0004, -.0003
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,70.52, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0003,463.6, .0002, -.0001
Tl1908,190.856 {477},In2306,ppm, .0001,.0002,169.2, .0002, .0000
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0002,113.4, .0000, -.0003
Zn2062,206.200 {463},In2306,ppm, .0076,.0000,.1114, .0076, .0076

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 901.11,7.0321,.78038,906.08,896.14
In2306,230.606 {446},Cts/S, 16592.,1.4222,.00857,16593.,16591.
Y_2243,224.306 {450},Cts/S, 26741.,15.189,.05680,26730.,26752.
Y_3600,360.073 { 94},Cts/S, 212040.,1002.0,.47256,211330.,212740.
Y_3710,371.030 { 91},Cts/S, 48794.,790.05,1.6191,49353.,48236.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=Blank
Username=admin
Comment=

Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:49:07
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0000,.0000,602.1, .0000, .0000
Al3082,308.215 {109},In2306,Cts/S, .0222,.0034,15.27, .0198, .0246
As1890,189.042 {478},Y_2243,Cts/S, .0000,.0000,115.0, -.0001, .0000
B_2496,249.678 {135},Y_3710,Cts/S, .0001,.0001,60.04, .0002, .0001
Ba4554,455.403 { 74},Y_3710,Cts/S, .0009,.0001,12.13, .0009, .0010
Be3130,313.042 {108},Y_3710,Cts/S, -.0004,.0000,9.415, -.0004, -.0003
Ca3158,315.887 {107},In2306,Cts/S, -.0401,.0018,4.390, -.0413, -.0388
Ca3181,318.128 {106},In2306,Cts/S, -.0072,.0015,20.87, -.0061, -.0082
Cd2288,228.802 {447},Y_2243,Cts/S, .0003,.0000,7.602, .0003, .0003
Co2286,228.616 {447},In2306,Cts/S, -.0002,.0000,3.626, -.0002, -.0002
Cr2677,267.716 {126},Y_3600,Cts/S, .0000,.0000,22.38, .0000, .0000
Cu3247,324.754 {104},Y_3600,Cts/S, .0038,.0000,.5674, .0037, .0038
Fe2404,240.488 {140},In2306,Cts/S, .0040,.0027,66.08, .0022, .0059
K_7664,766.490 { 44},Y_3710,Cts/S, -.0005,.0000,5.166, -.0005, -.0005
K_7698,769.896 { 44},Y_3710,Cts/S, .0043,.0006,14.71, .0039, .0048
Li6707,670.784 { 50},Y_3710,Cts/S, .0002,.0003,156.8, .0000, .0004
Mg2790,279.079 {121},Y_3710,Cts/S, .0000,.0000,53.92, -.0001, .0000
Mn2576,257.610 {131},Y_3600,Cts/S, .0000,.0000,60.66, .0000, .0000
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0000,.0000,45.82, .0000, .0000
Mo2020,202.030 {467},Y_2243,Cts/S, .0002,.0000,9.818, .0002, .0002
Na5895,589.592 { 57},Y_3710,Cts/S, .0022,.0003,14.72, .0025, .0020
Na8183,818.326 { 41},Y_3710,Cts/S, -.0008,.0002,29.46, -.0006, -.0010
Ni2316,231.604 {445},In2306,Cts/S, -.0001,.0001,86.54, .0000, -.0001
P_1782,178.284 {489},In2306,Cts/S, .0002,.0000,16.59, .0002, .0002
Pb2203,220.353 {453},In2306,Cts/S, -.0002,.0000,14.44, -.0002, -.0002
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0000,.0373, -.0004, -.0004
Sb2068,206.833 {463},Y_2243,Cts/S, .0000,.0000,372.5, .0000, .0000
Se1960,196.090 {472},Y_2243,Cts/S, .0000,.0000,209.6, .0000, .0001
Si2516,251.611 {134},Y_3710,Cts/S, .0003,.0000,13.33, .0002, .0003
Sn1899,189.989 {477},In2306,Cts/S, .0000,.0000,46.90, .0001, .0000
Sr4215,421.552 { 80},Y_3710,Cts/S, .0003,.0004,120.4, .0006, .0000
Ti3349,334.904 {101},Y_3600,Cts/S, .0000,.0000,189.5, .0000, .0000
Tl1908,190.856 {477},In2306,Cts/S, -.0001,.0000,42.96, -.0001, -.0001
V_2924,292.402 {115},Y_3600,Cts/S, -.0002,.0000,12.27, -.0002, -.0003
Zn2062,206.200 {463},In2306,Cts/S, .0006,.0000,.2256, .0006, .0006

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 897.24,1.0264,.11439,896.52,897.97
In2306,230.606 {446},Cts/S, 16583.,17.509,.10558,16571.,16596.
Y_2243,224.306 {450},Cts/S, 26642.,20.215,.07588,26627.,26656.
Y_3600,360.073 { 94},Cts/S, 210660.,281.55,.13365,210460.,210860.
Y_3710,371.030 { 91},Cts/S, 48447.,397.75,.82101,48165.,48728.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CalibStd-1
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=

Run Time=10/25/2012 8:51:31
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0018,.0000,.1623, .0018, .0018
Al3082,308.215 {109},In2306,Cts/S, .4065,.0016,.3989, .4053, .4076
As1890,189.042 {478},Y_2243,Cts/S, .0050,.0000,.1849, .0049, .0050
B_2496,249.678 {135},Y_3710,Cts/S, .0025,.0000,.3892, .0025, .0025
Ba4554,455.403 { 74},Y_3710,Cts/S, .1864,.0005,.2927, .1861, .1868
Be3130,313.042 {108},Y_3710,Cts/S, .1254,.0001,.0619, .1253, .1254
Ca3158,315.887 {107},In2306,Cts/S, .6482,.0018,.2780, .6469, .6495
Ca3181,318.128 {106},In2306,Cts/S, .3131,.0021,.6721, .3116, .3146
Cd2288,228.802 {447},Y_2243,Cts/S, .0585,.0003,.5522, .0583, .0587
Co2286,228.616 {447},In2306,Cts/S, .1110,.0005,.4105, .1107, .1114
Cr2677,267.716 {126},Y_3600,Cts/S, .0090,.0000,.2704, .0090, .0090
Cu3247,324.754 {104},Y_3600,Cts/S, .0262,.0000,.1369, .0262, .0262
Fe2404,240.488 {140},In2306,Cts/S, 1.095,.0026,.2400, 1.093, 1.096
K_7664,766.490 { 44},Y_3710,Cts/S, .0156,.0001,.4864, .0156, .0155
K_7698,769.896 { 44},Y_3710,Cts/S, .0121,.0002,2.009, .0122, .0119
Li6707,670.784 { 50},Y_3710,Cts/S, .0424,.0007,1.628, .0419, .0429
Mg2790,279.079 {121},Y_3710,Cts/S, .0054,.0000,.0193, .0054, .0054
Mn2576,257.610 {131},Y_3600,Cts/S, .0217,.0001,.5271, .0217, .0218
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0108,.0001,.7201, .0107, .0108
Mo2020,202.030 {467},Y_2243,Cts/S, .0095,.0001,.8460, .0094, .0095
Na5895,589.592 { 57},Y_3710,Cts/S, .0524,.0003,.5319, .0522, .0526
Na8183,818.326 { 41},Y_3710,Cts/S, .0012,.0003,23.90, .0010, .0014
Ni2316,231.604 {445},In2306,Cts/S, .0617,.0002,.3420, .0616, .0619
P_1782,178.284 {489},In2306,Cts/S, .0050,.0000,.6369, .0051, .0050
Pb2203,220.353 {453},In2306,Cts/S, .0178,.0001,.7564, .0177, .0179
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0000,9.109, -.0004, -.0005
Sb2068,206.833 {463},Y_2243,Cts/S, .0051,.0000,.1203, .0051, .0051
Se1960,196.090 {472},Y_2243,Cts/S, .0031,.0000,.0357, .0031, .0031
Si2516,251.611 {134},Y_3710,Cts/S, .0018,.0001,2.955, .0018, .0019
Sn1899,189.989 {477},In2306,Cts/S, .0061,.0000,.0325, .0061, .0061
Sr4215,421.552 { 80},Y_3710,Cts/S, .1389,.0006,.4643, .1384, .1393
Ti3349,334.904 {101},Y_3600,Cts/S, .0165,.0001,.5484, .0165, .0166
Tl1908,190.856 {477},In2306,Cts/S, .0077,.0000,.3892, .0077, .0077
V_2924,292.402 {115},Y_3600,Cts/S, .0131,.0000,.2438, .0131, .0131
Zn2062,206.200 {463},In2306,Cts/S, .1141,.0002,.1384, .1140, .1143

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 891.10,3.5478,.39814,888.59,893.61
In2306,230.606 {446},Cts/S, 16311.,52.794,.32367,16348.,16274.
Y_2243,224.306 {450},Cts/S, 26749.,128.51,.48045,26839.,26658.
Y_3600,360.073 { 94},Cts/S, 210240.,60.706,.02887,210290.,210200.
Y_3710,371.030 { 91},Cts/S, 48265.,328.38,.68036,48033.,48497.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CalibStd-2
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:53:49
Sample Type=Cal
Mode=IR

CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0036,.0000,.5329, .0036, .0036
Al3082,308.215 {109},In2306,Cts/S, .7949,.0130,1.632, .7857, .8041
As1890,189.042 {478},Y_2243,Cts/S, .0101,.0000,.3368, .0101, .0100
B_2496,249.678 {135},Y_3710,Cts/S, .0050,.0000,.3567, .0050, .0050
Ba4554,455.403 { 74},Y_3710,Cts/S, .3725,.0022,.6012, .3709, .3741
Be3130,313.042 {108},Y_3710,Cts/S, .2517,.0000,.0039, .2517, .2517
Ca3158,315.887 {107},In2306,Cts/S, 1.346,.0123,.9173, 1.337, 1.355
Ca3181,318.128 {106},In2306,Cts/S, .6347,.0155,2.444, .6237, .6456
Cd2288,228.802 {447},Y_2243,Cts/S, .1175,.0000,.0079, .1175, .1175
Co2286,228.616 {447},In2306,Cts/S, .2235,.0005,.2071, .2238, .2232
Cr2677,267.716 {126},Y_3600,Cts/S, .0181,.0001,.3050, .0182, .0181
Cu3247,324.754 {104},Y_3600,Cts/S, .0488,.0000,.0778, .0488, .0488
Fe2404,240.488 {140},In2306,Cts/S, 2.197,.0353,1.608, 2.172, 2.222
K_7664,766.490 { 44},Y_3710,Cts/S, .0323,.0005,1.457, .0327, .0320
K_7698,769.896 { 44},Y_3710,Cts/S, .0193,.0003,1.711, .0191, .0196
Li6707,670.784 { 50},Y_3710,Cts/S, .0843,.0008,.8931, .0838, .0848
Mg2790,279.079 {121},Y_3710,Cts/S, .0108,.0001,1.066, .0107, .0109
Mn2576,257.610 {131},Y_3600,Cts/S, .0435,.0000,.0329, .0435, .0435
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0213,.0001,.3555, .0212, .0213
Mo2020,202.030 {467},Y_2243,Cts/S, .0189,.0000,.1414, .0189, .0189
Na5895,589.592 { 57},Y_3710,Cts/S, .1036,.0007,.7206, .1030, .1041
Na8183,818.326 { 41},Y_3710,Cts/S, .0036,.0002,5.428, .0034, .0037
Ni2316,231.604 {445},In2306,Cts/S, .1251,.0003,.2015, .1253, .1249
P_1782,178.284 {489},In2306,Cts/S, .0102,.0000,.0833, .0102, .0102
Pb2203,220.353 {453},In2306,Cts/S, .0362,.0002,.5251, .0364, .0361
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0001,16.37, -.0003, -.0004
Sb2068,206.833 {463},Y_2243,Cts/S, .0102,.0001,.4959, .0102, .0101
Se1960,196.090 {472},Y_2243,Cts/S, .0062,.0000,.0902, .0062, .0062
Si2516,251.611 {134},Y_3710,Cts/S, .0033,.0001,1.520, .0033, .0033
Sn1899,189.989 {477},In2306,Cts/S, .0123,.0001,.5990, .0123, .0122
Sr4215,421.552 { 80},Y_3710,Cts/S, .2770,.0010,.3575, .2763, .2777
Ti3349,334.904 {101},Y_3600,Cts/S, .0328,.0002,.4620, .0329, .0327
Tl1908,190.856 {477},In2306,Cts/S, .0156,.0001,.6823, .0156, .0155
V_2924,292.402 {115},Y_3600,Cts/S, .0268,.0000,.0875, .0268, .0268
Zn2062,206.200 {463},In2306,Cts/S, .2309,.0008,.3296, .2314, .2304

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 895.60,13.599,1.5184,905.21,885.98
In2306,230.606 {446},Cts/S, 16030.,8.9753,.05599,16037.,16024.
Y_2243,224.306 {450},Cts/S, 26526.,59.546,.22449,26568.,26484.
Y_3600,360.073 { 94},Cts/S, 209130.,562.96,.26919,208730.,209530.
Y_3710,371.030 { 91},Cts/S, 48683.,310.57,.63794,48903.,48464.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CalibStd-3
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:56:05
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

```
[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0072,.0000,.4520, .0072, .0072
Al3082,308.215 {109},In2306,Cts/S, 1.582,.0120,.7610, 1.573, 1.590
As1890,189.042 {478},Y_2243,Cts/S, .0205,.0002,.7828, .0204, .0206
B_2496,249.678 {135},Y_3710,Cts/S, .0100,.0001,.8715, .0099, .0100
Ba4554,455.403 { 74},Y_3710,Cts/S, .7469,.0020,.2672, .7455, .7483
Be3130,313.042 {108},Y_3710,Cts/S, .5048,.0041,.8199, .5018, .5077
Ca3158,315.887 {107},In2306,Cts/S, 2.763,.0047,.1706, 2.759, 2.766
Ca3181,318.128 {106},In2306,Cts/S, 1.292,.0019,.1488, 1.293, 1.291
Cd2288,228.802 {447},Y_2243,Cts/S, .2344,.0001,.0291, .2344, .2345
Co2286,228.616 {447},In2306,Cts/S, .4547,.0000,.0024, .4547, .4547
Cr2677,267.716 {126},Y_3600,Cts/S, .0360,.0001,.2979, .0360, .0359
Cu3247,324.754 {104},Y_3600,Cts/S, .0938,.0003,.2678, .0940, .0937
Fe2404,240.488 {140},In2306,Cts/S, 4.408,.0035,.0802, 4.405, 4.410
K_7664,766.490 { 44},Y_3710,Cts/S, .0651,.0006,.9276, .0647, .0655
K_7698,769.896 { 44},Y_3710,Cts/S, .0343,.0001,.1710, .0343, .0342
Li6707,670.784 { 50},Y_3710,Cts/S, .1680,.0003,.1512, .1678, .1682
Mg2790,279.079 {121},Y_3710,Cts/S, .0215,.0000,.2243, .0215, .0215
Mn2576,257.610 {131},Y_3600,Cts/S, .0864,.0001,.1421, .0864, .0863
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0428,.0003,.6150, .0426, .0430
Mo2020,202.030 {467},Y_2243,Cts/S, .0374,.0000,.1074, .0374, .0374
Na5895,589.592 { 57},Y_3710,Cts/S, .2053,.0006,.2915, .2049, .2057
Na8183,818.326 { 41},Y_3710,Cts/S, .0076,.0002,2.081, .0075, .0078
Ni2316,231.604 {445},In2306,Cts/S, .2530,.0001,.0536, .2529, .2531
P_1782,178.284 {489},In2306,Cts/S, .0209,.0000,.1937, .0209, .0210
Pb2203,220.353 {453},In2306,Cts/S, .0733,.0001,.0787, .0733, .0733
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0000,1.296, -.0004, -.0004
Sb2068,206.833 {463},Y_2243,Cts/S, .0204,.0000,.2254, .0204, .0203
Se1960,196.090 {472},Y_2243,Cts/S, .0125,.0001,.4743, .0125, .0124
Si2516,251.611 {134},Y_3710,Cts/S, .0064,.0002,3.214, .0063, .0066
Sn1899,189.989 {477},In2306,Cts/S, .0248,.0000,.0290, .0248, .0248
Sr4215,421.552 { 80},Y_3710,Cts/S, .5548,.0024,.4241, .5532, .5565
Ti3349,334.904 {101},Y_3600,Cts/S, .0657,.0001,.0887, .0657, .0657
Tl1908,190.856 {477},In2306,Cts/S, .0316,.0003,.8627, .0318, .0314
V_2924,292.402 {115},Y_3600,Cts/S, .0536,.0001,.1467, .0536, .0535
Zn2062,206.200 {463},In2306,Cts/S, .4700,.0004,.0749, .4703, .4698

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 882.72,7.8629,.89076,888.28,877.16
In2306,230.606 {446},Cts/S, 15619.,.17853,.00114,15619.,15619.
Y_2243,224.306 {450},Cts/S, 26415.,1.1113,.00421,26414.,26415.
Y_3600,360.073 { 94},Cts/S, 207970.,610.74,.29367,207530.,208400.
Y_3710,371.030 { 91},Cts/S, 48364.,664.22,1.3734,48834.,47894.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CalibStd-4
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 8:58:16
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0142,.0001,.5015, .0143, .0142
```

```
Al3082,308.215 {109},In2306,Cts/S, 3.161,.0076,.2392, 3.155, 3.166
As1890,189.042 {478},Y_2243,Cts/S, .0410,.0000,.0187, .0410, .0411
B_2496,249.678 {135},Y_3710,Cts/S, .0196,.0001,.6949, .0196, .0195
Ba4554,455.403 { 74},Y_3710,Cts/S, 1.486,.0013,.0896, 1.485, 1.487
Be3130,313.042 {108},Y_3710,Cts/S, .9954,.0022,.2172, .9969, .9939
Ca3158,315.887 {107},In2306,Cts/S, 5.556,.0085,.1525, 5.550, 5.562
Ca3181,318.128 {106},In2306,Cts/S, 2.591,.0061,.2341, 2.586, 2.595
Cd2288,228.802 {447},Y_2243,Cts/S, .4664,.0000,.0093, .4664, .4663
Co2286,228.616 {447},In2306,Cts/S, .9192,.0032,.3523, .9215, .9169
Cr2677,267.716 {126},Y_3600,Cts/S, .0717,.0002,.3019, .0715, .0718
Cu3247,324.754 {104},Y_3600,Cts/S, .1832,.0009,.5066, .1839, .1825
Fe2404,240.488 {140},In2306,Cts/S, 8.826,.0170,.1921, 8.838, 8.814
K_7664,766.490 { 44},Y_3710,Cts/S, .1299,.0007,.5055, .1303, .1294
K_7698,769.896 { 44},Y_3710,Cts/S, .0634,.0003,.4066, .0636, .0632
Li6707,670.784 { 50},Y_3710,Cts/S, .3300,.0010,.3168, .3307, .3293
Mg2790,279.079 {121},Y_3710,Cts/S, .0423,.0000,.0347, .0423, .0423
Mn2576,257.610 {131},Y_3600,Cts/S, .1708,.0004,.2363, .1705, .1711
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .0837,.0001,.1011, .0838, .0837
Mo2020,202.030 {467},Y_2243,Cts/S, .0751,.0002,.2448, .0750, .0753
Na5895,589.592 { 57},Y_3710,Cts/S, .4040,.0008,.2018, .4046, .4034
Na8183,818.326 { 41},Y_3710,Cts/S, .0159,.0002,.9800, .0158, .0160
Ni2316,231.604 {445},In2306,Cts/S, .5075,.0021,.4064, .5090, .5061
P_1782,178.284 {489},In2306,Cts/S, .0428,.0003,.6386, .0430, .0426
Pb2203,220.353 {453},In2306,Cts/S, .1465,.0005,.3345, .1469, .1462
S_1820,182.034 {485},Y_2243,Cts/S, -.0004,.0000,.8139, -.0004, -.0004
Sb2068,206.833 {463},Y_2243,Cts/S, .0405,.0000,.0439, .0405, .0405
Se1960,196.090 {472},Y_2243,Cts/S, .0247,.0000,.0369, .0247, .0247
Si2516,251.611 {134},Y_3710,Cts/S, .0126,.0001,.7903, .0125, .0126
Sn1899,189.989 {477},In2306,Cts/S, .0498,.0001,.1393, .0498, .0498
Sr4215,421.552 { 80},Y_3710,Cts/S, 1.095,.0012,.1091, 1.096, 1.094
Ti3349,334.904 {101},Y_3600,Cts/S, .1314,.0000,.0080, .1314, .1314
Tl1908,190.856 {477},In2306,Cts/S, .0631,.0004,.5706, .0633, .0628
V_2924,292.402 {115},Y_3600,Cts/S, .1072,.0002,.2199, .1071, .1074
Zn2062,206.200 {463},In2306,Cts/S, .9539,.0045,.4681, .9570, .9507

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 872.58,3.0726,.35212,874.75,870.41
In2306,230.606 {446},Cts/S, 15138.,2.9114,.01923,15140.,15136.
Y_2243,224.306 {450},Cts/S, 26207.,60.048,.22913,26250.,26165.
Y_3600,360.073 { 94},Cts/S, 204920.,96.706,.04719,204860.,204990.
Y_3710,371.030 { 91},Cts/S, 48461.,72.490,.14958,48512.,48410.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CalibStd-5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:00:26
Sample Type=Cal
Mode=IR
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .0289,.0002,.5945, .0290, .0288
Al3082,308.215 {109},In2306,Cts/S, 6.362,.0286,.4491, 6.342, 6.383
As1890,189.042 {478},Y_2243,Cts/S, .0823,.0004,.4454, .0820, .0825
B_2496,249.678 {135},Y_3710,Cts/S, .0397,.0000,.0924, .0397, .0396
```

Ba4554,455.403 { 74},Y_3710,Cts/S, 2.992,.0023,.0764, 2.990, 2.993
Be3130,313.042 {108},Y_3710,Cts/S, 2.016,.0033,.1636, 2.014, 2.019
Ca3158,315.887 {107},In2306,Cts/S, 11.14,.0290,.2602, 11.12, 11.16
Ca3181,318.128 {106},In2306,Cts/S, 5.200,.0172,.3305, 5.188, 5.212
Cd2288,228.802 {447},Y_2243,Cts/S, .9338,.0046,.4942, .9306, .9371
Co2286,228.616 {447},In2306,Cts/S, 1.867,.0088,.4735, 1.860, 1.873
Cr2677,267.716 {126},Y_3600,Cts/S, .1426,.0005,.3817, .1429, .1422
Cu3247,324.754 {104},Y_3600,Cts/S, .3627,.0004,.1109, .3624, .3630
Fe2404,240.488 {140},In2306,Cts/S, 17.57,.0525,.2987, 17.53, 17.60
K_7664,766.490 { 44},Y_3710,Cts/S, .2634,.0003,.1323, .2631, .2636
K_7698,769.896 { 44},Y_3710,Cts/S, .1229,.0001,.0570, .1229, .1228
Li6707,670.784 { 50},Y_3710,Cts/S, .6637,.0015,.2273, .6627, .6648
Mg2790,279.079 {121},Y_3710,Cts/S, .0854,.0002,.1968, .0853, .0855
Mn2576,257.610 {131},Y_3600,Cts/S, .3424,.0017,.4954, .3436, .3412
Mn2576-2,257.610 {131}2,Y_3710,Cts/S, .1684,.0007,.4029, .1679, .1688
Mo2020,202.030 {467},Y_2243,Cts/S, .1490,.0006,.3974, .1486, .1494
Na5895,589.592 { 57},Y_3710,Cts/S, .8118,.0010,.1256, .8111, .8125
Na8183,818.326 { 41},Y_3710,Cts/S, .0323,.0003,1.017, .0325, .0321
Ni2316,231.604 {445},In2306,Cts/S, 1.033,.0063,.6063, 1.028, 1.037
P_1782,178.284 {489},In2306,Cts/S, .0887,.0004,.4301, .0885, .0890
Pb2203,220.353 {453},In2306,Cts/S, .2948,.0015,.5222, .2937, .2959
Sb2068,206.833 {463},Y_2243,Cts/S, .0802,.0004,.4465, .0800, .0805
Se1960,196.090 {472},Y_2243,Cts/S, .0497,.0000,.0591, .0496, .0497
Si2516,251.611 {134},Y_3710,Cts/S, .0250,.0001,.3131, .0250, .0251
Sn1899,189.989 {477},In2306,Cts/S, .1038,.0006,.5547, .1034, .1042
Sr4215,421.552 { 80},Y_3710,Cts/S, 2.221,.0006,.0262, 2.221, 2.221
Ti3349,334.904 {101},Y_3600,Cts/S, .2629,.0005,.1989, .2633, .2626
Tl1908,190.856 {477},In2306,Cts/S, .1249,.0003,.2552, .1247, .1252
V_2924,292.402 {115},Y_3600,Cts/S, .2156,.0010,.4511, .2163, .2149
Zn2062,206.200 {463},In2306,Cts/S, 1.958,.0128,.6547, 1.949, 1.967

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 865.44,3.1361,.36237,867.66,863.22
In2306,230.606 {446},Cts/S, 14502.,66.803,.46064,14549.,14455.
Y_2243,224.306 {450},Cts/S, 25855.,105.71,.40884,25929.,25780.
Y_3600,360.073 { 94},Cts/S, 201440.,300.11,.14898,201230.,201660.
Y_3710,371.030 { 91},Cts/S, 48019.,99.468,.20714,48089.,47949.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:02:38
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2384,.0000,.0087, .2383, .2384
Al3082,308.215 {109},In2306,ppm, 2.418,.0080,.3328, 2.412, 2.424
As1890,189.042 {478},Y_2243,ppm, .4838,.0008,.1674, .4832, .4843
B_2496,249.678 {135},Y_3710,ppm, .4918,.0019,.3895, .4905, .4932
Ba4554,455.403 { 74},Y_3710,ppm, .4785,.0014,.3024, .4796, .4775
Be3130,313.042 {108},Y_3710,ppm, .4872,.0009,.1899, .4866, .4879
Ca3158,315.887 {107},In2306,ppm, 11.99,.0134,.1114, 11.98, 12.00
Ca3181,318.128 {106},In2306,ppm, 12.03,.0584,.4852, 12.07, 11.99

Cd2288,228.802 {447},Y_2243,ppm, .4839,.0002,.0403, .4840, .4837
Co2286,228.616 {447},In2306,ppm, .4817,.0026,.5455, .4836, .4798
Cr2677,267.716 {126},Y_3600,ppm, .4858,.0034,.7034, .4882, .4834
Cu3247,324.754 {104},Y_3600,ppm, .4797,.0029,.5999, .4817, .4776
Fe2404,240.488 {140},In2306,ppm, 2.425,.0062,.2554, 2.429, 2.420
K_7664,766.490 { 44},Y_3710,ppm, 12.16,.0075,.0619, 12.15, 12.16
K_7698,769.896 { 44},Y_3710,ppm, 12.11,.0732,.6045, 12.06, 12.16
Li6707,670.784 { 50},Y_3710,ppm, .4854,.0032,.6678, .4877, .4831
Mg2790,279.079 {121},Y_3710,ppm, 4.905,.0087,.1766, 4.899, 4.911
Mn2576,257.610 {131},Y_3600,ppm, .4777,.0012,.2481, .4785, .4768
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4842,.0030,.6227, .4821, .4863
Mo2020,202.030 {467},Y_2243,ppm, .4857,.0014,.2884, .4867, .4847
Na5895,589.592 { 57},Y_3710,ppm, 12.16,.0120,.0989, 12.15, 12.17
Na8183,818.326 { 41},Y_3710,ppm, 12.27,.3845,3.134, 12.00, 12.54
Ni2316,231.604 {445},In2306,ppm, .4785,.0016,.3338, .4796, .4774
P_1782,178.284 {489},In2306,ppm, .4780,.0009,.1881, .4786, .4773
Pb2203,220.353 {453},In2306,ppm, .4776,.0010,.2000, .4769, .4783
S_1820,182.034 {485},Y_2243,ppm, -168.2,.4242,.2522, -168.5, -167.9
Sb2068,206.833 {463},Y_2243,ppm, .4893,.0011,.2313, .4901, .4885
Se1960,196.090 {472},Y_2243,ppm, .4832,.0015,.3131, .4842, .4821
Si2516,251.611 {134},Y_3710,ppm, .9407,.0151,1.607, .9300, .9514
Sn1899,189.989 {477},In2306,ppm, .4729,.0006,.1246, .4733, .4724
Sr4215,421.552 { 80},Y_3710,ppm, .2406,.0001,.0347, .2406, .2407
Ti3349,334.904 {101},Y_3600,ppm, .4886,.0009,.1920, .4893, .4879
Tl1908,190.856 {477},In2306,ppm, .4978,.0008,.1583, .4972, .4983
V_2924,292.402 {115},Y_3600,ppm, .4875,.0026,.5317, .4893, .4856
Zn2062,206.200 {463},In2306,ppm, .4760,.0018,.3680, .4772, .4748

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 875.17,.43810,.05006,874.86,875.48
In2306,230.606 {446},Cts/S, 15235.,45.580,.29919,15203.,15267.
Y_2243,224.306 {450},Cts/S, 26070.,46.034,.17658,26037.,26102.
Y_3600,360.073 { 94},Cts/S, 204250.,367.29,.17983,203990.,204510.
Y_3710,371.030 { 91},Cts/S, 47836.,105.06,.21963,47911.,47762.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLICV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:04:50
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0048,.0007,14.08, .0053, .0044
Al3082,308.215 {109},In2306,ppm, .0908,.0093,10.21, .0974, .0842
As1890,189.042 {478},Y_2243,ppm, .0083,.0005,5.760, .0087, .0080
B_2496,249.678 {135},Y_3710,ppm, .0094,.0031,32.89, .0116, .0072
Ba4554,455.403 { 74},Y_3710,ppm, .0097,.0000,.2681, .0097, .0097
Be3130,313.042 {108},Y_3710,ppm, .0049,.0000,.4127, .0049, .0049
Ca3158,315.887 {107},In2306,ppm, .0997,.0029,2.864, .1017, .0977
Ca3181,318.128 {106},In2306,ppm, .0939,.0002,.2142, .0938, .0941
Cd2288,228.802 {447},Y_2243,ppm, .0049,.0001,1.032, .0049, .0050
Co2286,228.616 {447},In2306,ppm, .0096,.0001,1.256, .0096, .0095
Cr2677,267.716 {126},Y_3600,ppm, .0093,.0004,4.345, .0096, .0090

```
Cu3247,324.754 {104},Y_3600,ppm, .0097,.0000,.2601, .0097, .0097
Fe2404,240.488 {140},In2306,ppm, .0929,.0001,.0585, .0930, .0929
K_7664,766.490 { 44},Y_3710,ppm, .5852,.0036,.6164, .5826, .5877
K_7698,769.896 { 44},Y_3710,ppm, .6483,.0082,1.268, .6541, .6425
Li6707,670.784 { 50},Y_3710,ppm, .0040,.0003,7.537, .0042, .0037
Mg2790,279.079 {121},Y_3710,ppm, .0990,.0103,10.38, .1063, .0918
Mn2576,257.610 {131},Y_3600,ppm, .0098,.0000,.2171, .0098, .0098
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0100,.0001,1.319, .0101, .0099
Mo2020,202.030 {467},Y_2243,ppm, .0114,.0009,7.907, .0108, .0120
Na5895,589.592 { 57},Y_3710,ppm, .5804,.0054,.9349, .5842, .5766
Na8183,818.326 { 41},Y_3710,ppm, .7398,.0603,8.149, .6971, .7824
Ni2316,231.604 {445},In2306,ppm, .0096,.0001,.6968, .0096, .0097
P_1782,178.284 {489},In2306,ppm, -.0024,.0007,29.31, -.0019, -.0029
Pb2203,220.353 {453},In2306,ppm, .0098,.0004,4.314, .0101, .0095
S_1820,182.034 {485},Y_2243,ppm, .0914,.2416,264.4, -.0795, .2622
Sb2068,206.833 {463},Y_2243,ppm, .0119,.0002,1.748, .0121, .0118
Se1960,196.090 {472},Y_2243,ppm, .0103,.0010,9.802, .0110, .0096
Si2516,251.611 {134},Y_3710,ppm, .0081,.0005,6.064, .0078, .0085
Sn1899,189.989 {477},In2306,ppm, .0085,.0007,8.487, .0080, .0090
Sr4215,421.552 { 80},Y_3710,ppm, .0049,.0001,1.429, .0049, .0048
Ti3349,334.904 {101},Y_3600,ppm, .0095,.0004,4.211, .0092, .0098
Tl1908,190.856 {477},In2306,ppm, .0125,.0039,31.42, .0097, .0153
V_2924,292.402 {115},Y_3600,ppm, .0100,.0000,.4467, .0099, .0100
Zn2062,206.200 {463},In2306,ppm, .0096,.0001,.7852, .0095, .0097

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 890.72,2.1113,.23703,889.23,892.22
In2306,230.606 {446},Cts/S, 16339.,233.40,1.4285,16174.,16504.
Y_2243,224.306 {450},Cts/S, 26365.,391.06,1.4833,26088.,26641.
Y_3600,360.073 { 94},Cts/S, 210980.,227.46,.10781,210820.,211140.
Y_3710,371.030 { 91},Cts/S, 48021.,70.629,.14708,47971.,48070.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICBIS
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:07:14
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0003,119.5, .0000, .0004
Al3082,308.215 {109},In2306,ppm, -.0052,.0204,392.5, -.0196, .0092
As1890,189.042 {478},Y_2243,ppm, -.0015,.0001,4.605, -.0015, -.0016
B_2496,249.678 {135},Y_3710,ppm, .0001,.0013,964.1, -.0008, .0010
Ba4554,455.403 { 74},Y_3710,ppm, .0001,.0003,210.7, -.0001, .0003
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,143.4, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, .0078,.0097,124.8, .0009, .0146
Ca3181,318.128 {106},In2306,ppm, .0219,.0015,6.707, .0229, .0209
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,27.10, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0001,3191., .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0002,.0001,77.54, -.0001, -.0003
Cu3247,324.754 {104},Y_3600,ppm, -.0003,.0002,60.37, -.0002, -.0004
Fe2404,240.488 {140},In2306,ppm, .0010,.0002,20.80, .0008, .0011
K_7664,766.490 { 44},Y_3710,ppm, -.0198,.0156,78.89, -.0309, -.0088
```

K_7698,769.896 { 44},Y_3710,ppm, .0326,.0399,122.4, .0608, .0044
Li6707,670.784 { 50},Y_3710,ppm, -.0002,.0005,223.0, .0001, -.0006
Mg2790,279.079 {121},Y_3710,ppm, .0092,.0020,22.24, .0106, .0077
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,154.2, .0000, -.0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0007,.0008,126.9, .0013, .0001
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0002,56.40, .0004, .0002
Na5895,589.592 { 57},Y_3710,ppm, -.0122,.0001,1.019, -.0123, -.0121
Na8183,818.326 { 41},Y_3710,ppm, .0615,.0824,134.0, .1198, .0032
Ni2316,231.604 {445},In2306,ppm, .0000,.0001,127.5, .0001, .0000
P_1782,178.284 {489},In2306,ppm, -.0013,.0005,36.38, -.0010, -.0016
Pb2203,220.353 {453},In2306,ppm, -.0001,.0008,875.0, -.0007, .0005
S_1820,182.034 {485},Y_2243,ppm, .1983,.1866,94.07, .0664, .3303
Sb2068,206.833 {463},Y_2243,ppm, .0003,.0010,319.7, -.0004, .0010
Se1960,196.090 {472},Y_2243,ppm, -.0001,.0008,558.5, -.0007, .0004
Si2516,251.611 {134},Y_3710,ppm, -.0026,.0013,51.39, -.0035, -.0016
Sn1899,189.989 {477},In2306,ppm, .0004,.0000,4.446, .0004, .0004
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,34.81, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0002,60.59, -.0002, -.0005
Tl1908,190.856 {477},In2306,ppm, -.0003,.0003,94.47, -.0005, -.0001
V_2924,292.402 {115},Y_3600,ppm, .0000,.0002,2569., .0001, -.0001
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,37.03, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 898.25,4.7736,.53143,894.87,901.62
In2306,230.606 {446},Cts/S, 16620.,5.4588,.03284,16624.,16616.
Y_2243,224.306 {450},Cts/S, 26581.,15.965,.06006,26592.,26570.
Y_3600,360.073 { 94},Cts/S, 211740.,1099.7,.51936,210960.,212510.
Y_3710,371.030 { 91},Cts/S, 48374.,442.09,.91390,48061.,48686.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICSA 989860
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:09:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0027,.0027,101.0, .0046, .0008
Al3082,308.215 {109},In2306,ppm, 522.3,5.455,1.044, 518.5, 526.2
As1890,189.042 {478},Y_2243,ppm, -.0077,.0003,4.321, -.0075, -.0080
B_2496,249.678 {135},Y_3710,ppm, -.0026,.0010,38.18, -.0019, -.0034
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0001,66.50, .0001, .0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,48.14, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 487.3,4.293,.8808, 484.3, 490.4
Ca3181,318.128 {106},In2306,ppm, 491.4,4.488,.9134, 488.2, 494.6
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0001,40.50, .0002, .0003
Co2286,228.616 {447},In2306,ppm, -.0006,.0001,19.81, -.0005, -.0007
Cr2677,267.716 {126},Y_3600,ppm, .0025,.0002,6.905, .0027, .0024
Cu3247,324.754 {104},Y_3600,ppm, .0043,.0004,9.298, .0041, .0046
Fe2404,240.488 {140},In2306,ppm, 193.1,1.892,.9796, 191.8, 194.5
K_7664,766.490 { 44},Y_3710,ppm, -.0951,.0130,13.68, -.0859, -.1043
K_7698,769.896 { 44},Y_3710,ppm, -.4623,.0653,14.11, -.4162, -.5085
Li6707,670.784 { 50},Y_3710,ppm, .0170,.0021,12.53, .0185, .0155
Mg2790,279.079 {121},Y_3710,ppm, 505.4,.9059,.1792, 506.1, 504.8

Mn2576,257.610 {131},Y_3600,ppm, -.0052,.0001,1.109, -.0053, -.0052
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0047,.0007,15.49, -.0042, -.0052
Mo2020,202.030 {467},Y_2243,ppm, -.0003,.0010,286.1, .0003, -.0010
Na5895,589.592 { 57},Y_3710,ppm, .0188,.0020,10.63, .0202, .0174
Na8183,818.326 { 41},Y_3710,ppm, .3231,.1672,51.74, .4413, .2049
Ni2316,231.604 {445},In2306,ppm, .0065,.0000,.1184, .0065, .0065
P_1782,178.284 {489},In2306,ppm, .0018,.0017,92.41, .0006, .0030
Pb2203,220.353 {453},In2306,ppm, .0107,.0006,5.240, .0103, .0111
S_1820,182.034 {485},Y_2243,ppm, 19.66,.5677,2.887, 20.07, 19.26
Sb2068,206.833 {463},Y_2243,ppm, -.0122,.0024,19.97, -.0104, -.0139
Se1960,196.090 {472},Y_2243,ppm, .0028,.0007,25.40, .0033, .0023
Si2516,251.611 {134},Y_3710,ppm, .0016,.0042,260.8, -.0014, .0046
Sn1899,189.989 {477},In2306,ppm, .0087,.0012,13.28, .0079, .0095
Sr4215,421.552 { 80},Y_3710,ppm, .0021,.0000,1.742, .0021, .0022
Ti3349,334.904 {101},Y_3600,ppm, .0037,.0001,3.276, .0037, .0036
Tl1908,190.856 {477},In2306,ppm, -.0070,.0007,10.52, -.0065, -.0075
V_2924,292.402 {115},Y_3600,ppm, .0001,.0005,441.3, .0005, -.0002
Zn2062,206.200 {463},In2306,ppm, .0033,.0000,1.050, .0033, .0033

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 788.69,7.7582,.98368,794.18,783.21
In2306,230.606 {446},Cts/S, 11410.,15.537,.13617,11399.,11421.
Y_2243,224.306 {450},Cts/S, 22858.,80.542,.35236,22801.,22915.
Y_3600,360.073 { 94},Cts/S, 175560.,65.225,.03715,175610.,175520.
Y_3710,371.030 { 91},Cts/S, 46161.,25.140,.05446,46143.,46178.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICSAB 993658
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:12:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5368,.0001,.0218, .5368, .5367
Al3082,308.215 {109},In2306,ppm, 538.3,15.71,2.918, 549.4, 527.2
As1890,189.042 {478},Y_2243,ppm, 1.015,.0039,.3825, 1.018, 1.012
B_2496,249.678 {135},Y_3710,ppm, 1.002,.0040,.3978, 1.005, .9990
Ba4554,455.403 { 74},Y_3710,ppm, .9918,.0065,.6560, .9964, .9872
Be3130,313.042 {108},Y_3710,ppm, .4884,.0043,.8875, .4915, .4854
Ca3158,315.887 {107},In2306,ppm, 504.3,18.96,3.760, 517.7, 490.9
Ca3181,318.128 {106},In2306,ppm, 506.5,13.60,2.684, 516.1, 496.9
Cd2288,228.802 {447},Y_2243,ppm, .5100,.0001,.0110, .5100, .5099
Co2286,228.616 {447},In2306,ppm, 1.010,.0007,.0738, 1.011, 1.010
Cr2677,267.716 {126},Y_3600,ppm, .9556,.0027,.2792, .9537, .9575
Cu3247,324.754 {104},Y_3600,ppm, 1.039,.0011,.1101, 1.038, 1.040
Fe2404,240.488 {140},In2306,ppm, 205.5,5.564,2.708, 209.4, 201.5
K_7664,766.490 { 44},Y_3710,ppm, 10.44,.0528,.5054, 10.48, 10.40
K_7698,769.896 { 44},Y_3710,ppm, 10.07,.0585,.5814, 10.11, 10.02
Li6707,670.784 { 50},Y_3710,ppm, 1.068,.0036,.3401, 1.071, 1.066
Mg2790,279.079 {121},Y_3710,ppm, 507.9,4.615,.9087, 511.2, 504.6
Mn2576,257.610 {131},Y_3600,ppm, .9548,.0012,.1279, .9557, .9540
Mn2576-2,257.610 {131}2,Y_3710,ppm, .9507,.0066,.6912, .9553, .9460
Mo2020,202.030 {467},Y_2243,ppm, .9442,.0021,.2197, .9456, .9427

Na5895,589.592 { 57},Y_3710,ppm, 10.47,.0477,.4557, 10.50, 10.43
Na8183,818.326 { 41},Y_3710,ppm, 10.09,.0299,.2960, 10.07, 10.11
Ni2316,231.604 {445},In2306,ppm, 1.017,.0001,.0052, 1.018, 1.017
P_1782,178.284 {489},In2306,ppm, 1.158,.0032,.2772, 1.160, 1.155
Pb2203,220.353 {453},In2306,ppm, .9923,.0008,.0822, .9917, .9928
S_1820,182.034 {485},Y_2243,ppm, 20.00,.6800,3.400, 20.48, 19.52
Sb2068,206.833 {463},Y_2243,ppm, .9740,.0017,.1704, .9752, .9728
Se1960,196.090 {472},Y_2243,ppm, 1.010,.0030,.2983, 1.012, 1.008
Si2516,251.611 {134},Y_3710,ppm, 1.016,.0004,.0401, 1.016, 1.016
Sn1899,189.989 {477},In2306,ppm, 1.022,.0003,.0303, 1.022, 1.021
Sr4215,421.552 { 80},Y_3710,ppm, .5026,.0044,.8738, .5057, .4995
Ti3349,334.904 {101},Y_3600,ppm, .9756,.0002,.0173, .9754, .9757
Tl1908,190.856 {477},In2306,ppm, .9005,.0015,.1700, .8994, .9016
V_2924,292.402 {115},Y_3600,ppm, .9708,.0002,.0236, .9707, .9710
Zn2062,206.200 {463},In2306,ppm, 1.052,.0009,.0869, 1.051, 1.052

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 776.14,22.675,2.9215,760.10,792.17
In2306,230.606 {446},Cts/S, 11305.,20.672,.18285,11320.,11291.
Y_2243,224.306 {450},Cts/S, 22770.,40.330,.17712,22798.,22741.
Y_3600,360.073 { 94},Cts/S, 174920.,48.497,.02773,174950.,174880.
Y_3710,371.030 { 91},Cts/S, 46309.,447.29,.96590,45992.,46625.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:14:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2446,.0009,.3502, .2440, .2452
Al3082,308.215 {109},In2306,ppm, 2.425,.0026,.1082, 2.427, 2.423
As1890,189.042 {478},Y_2243,ppm, .4868,.0031,.6425, .4846, .4890
B_2496,249.678 {135},Y_3710,ppm, .4878,.0034,.6930, .4854, .4902
Ba4554,455.403 { 74},Y_3710,ppm, .4772,.0004,.0797, .4775, .4770
Be3130,313.042 {108},Y_3710,ppm, .4884,.0007,.1413, .4879, .4889
Ca3158,315.887 {107},In2306,ppm, 12.17,.0079,.0648, 12.16, 12.17
Ca3181,318.128 {106},In2306,ppm, 11.99,.0223,.1856, 11.98, 12.01
Cd2288,228.802 {447},Y_2243,ppm, .4839,.0005,.1064, .4835, .4843
Co2286,228.616 {447},In2306,ppm, .4763,.0001,.0196, .4764, .4762
Cr2677,267.716 {126},Y_3600,ppm, .4853,.0025,.5183, .4835, .4871
Cu3247,324.754 {104},Y_3600,ppm, .4812,.0003,.0633, .4810, .4814
Fe2404,240.488 {140},In2306,ppm, 2.421,.0070,.2895, 2.416, 2.426
K_7664,766.490 { 44},Y_3710,ppm, 12.17,.0086,.0711, 12.17, 12.16
K_7698,769.896 { 44},Y_3710,ppm, 12.15,.0272,.2242, 12.17, 12.13
Li6707,670.784 { 50},Y_3710,ppm, .4867,.0028,.5794, .4887, .4847
Mg2790,279.079 {121},Y_3710,ppm, 4.878,.0131,.2686, 4.888, 4.869
Mn2576,257.610 {131},Y_3600,ppm, .4898,.0005,.1027, .4901, .4894
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4963,.0013,.2601, .4972, .4954
Mo2020,202.030 {467},Y_2243,ppm, .4997,.0001,.0188, .4997, .4998
Na5895,589.592 { 57},Y_3710,ppm, 12.15,.0006,.0051, 12.15, 12.15
Na8183,818.326 { 41},Y_3710,ppm, 12.02,.1851,1.540, 11.88, 12.15
Ni2316,231.604 {445},In2306,ppm, .4801,.0013,.2639, .4810, .4792

P_1782,178.284 {489},In2306,ppm, .4753,.0000,.0003, .4753, .4753
Pb2203,220.353 {453},In2306,ppm, .4763,.0000,.0030, .4763, .4763
S_1820,182.034 {485},Y_2243,ppm, -170.5,.2563,.1503, -170.7, -170.4
Sb2068,206.833 {463},Y_2243,ppm, .4962,.0001,.0124, .4962, .4961
Se1960,196.090 {472},Y_2243,ppm, .4894,.0003,.0618, .4896, .4892
Si2516,251.611 {134},Y_3710,ppm, .9452,.0029,.3039, .9473, .9432
Sn1899,189.989 {477},In2306,ppm, .4824,.0008,.1653, .4819, .4830
Sr4215,421.552 { 80},Y_3710,ppm, .2446,.0002,.0946, .2448, .2445
Ti3349,334.904 {101},Y_3600,ppm, .4849,.0005,.1132, .4846, .4853
Tl1908,190.856 {477},In2306,ppm, .4881,.0030,.6244, .4860, .4903
V_2924,292.402 {115},Y_3600,ppm, .4915,.0037,.7579, .4941, .4889
Zn2062,206.200 {463},In2306,ppm, .4723,.0004,.0790, .4721, .4726

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 874.53,1.9015,.21743,875.88,873.19
In2306,230.606 {446},Cts/S, 15376.,19.704,.12814,15390.,15362.
Y_2243,224.306 {450},Cts/S, 26039.,56.152,.21564,26079.,25999.
Y_3600,360.073 { 94},Cts/S, 204390.,517.50,.25320,204020.,204750.
Y_3710,371.030 { 91},Cts/S, 48054.,72.882,.15167,48106.,48002.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:16:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0058,.0003,5.878, .0056, .0061
Al3082,308.215 {109},In2306,ppm, .0853,.0088,10.28, .0915, .0791
As1890,189.042 {478},Y_2243,ppm, .0086,.0008,9.885, .0091, .0080
B_2496,249.678 {135},Y_3710,ppm, .0089,.0026,29.32, .0107, .0071
Ba4554,455.403 { 74},Y_3710,ppm, .0099,.0003,3.064, .0101, .0097
Be3130,313.042 {108},Y_3710,ppm, .0049,.0002,4.101, .0051, .0048
Ca3158,315.887 {107},In2306,ppm, .1030,.0057,5.549, .1071, .0990
Ca3181,318.128 {106},In2306,ppm, .0903,.0044,4.852, .0872, .0934
Cd2288,228.802 {447},Y_2243,ppm, .0049,.0001,2.750, .0048, .0050
Co2286,228.616 {447},In2306,ppm, .0092,.0001,.7825, .0092, .0093
Cr2677,267.716 {126},Y_3600,ppm, .0096,.0003,3.350, .0094, .0098
Cu3247,324.754 {104},Y_3600,ppm, .0113,.0003,2.914, .0110, .0115
Fe2404,240.488 {140},In2306,ppm, .0969,.0025,2.592, .0987, .0952
K_7664,766.490 { 44},Y_3710,ppm, .5925,.0403,6.794, .6210, .5641
K_7698,769.896 { 44},Y_3710,ppm, .6557,.0108,1.649, .6634, .6481
Li6707,670.784 { 50},Y_3710,ppm, .0052,.0006,12.44, .0057, .0048
Mg2790,279.079 {121},Y_3710,ppm, .1145,.0062,5.375, .1189, .1102
Mn2576,257.610 {131},Y_3600,ppm, .0101,.0001,.6685, .0101, .0101
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0106,.0018,17.21, .0119, .0093
Mo2020,202.030 {467},Y_2243,ppm, .0110,.0005,4.679, .0106, .0113
Na5895,589.592 { 57},Y_3710,ppm, .5975,.0064,1.065, .6020, .5930
Na8183,818.326 { 41},Y_3710,ppm, .6084,.0914,15.02, .5438, .6730
Ni2316,231.604 {445},In2306,ppm, .0093,.0002,2.561, .0091, .0095
P_1782,178.284 {489},In2306,ppm, -.0017,.0007,38.52, -.0013, -.0022
Pb2203,220.353 {453},In2306,ppm, .0097,.0000,.1211, .0097, .0097
S_1820,182.034 {485},Y_2243,ppm, .3343,.0730,21.83, .2827, .3859

Sb2068,206.833 {463},Y_2243,ppm, .0119,.0014,11.69, .0109, .0129
Se1960,196.090 {472},Y_2243,ppm, .0093,.0001,1.603, .0094, .0092
Si2516,251.611 {134},Y_3710,ppm, .0088,.0014,15.99, .0078, .0098
Sn1899,189.989 {477},In2306,ppm, .0088,.0002,2.057, .0086, .0089
Sr4215,421.552 { 80},Y_3710,ppm, .0050,.0001,2.708, .0051, .0049
Ti3349,334.904 {101},Y_3600,ppm, .0094,.0003,3.231, .0096, .0091
Tl1908,190.856 {477},In2306,ppm, .0120,.0030,24.93, .0099, .0141
V_2924,292.402 {115},Y_3600,ppm, .0097,.0001,1.512, .0098, .0096
Zn2062,206.200 {463},In2306,ppm, .0096,.0000,.2561, .0096, .0095

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 884.02,27.347,3.0935,864.68,903.36
In2306,230.606 {446},Cts/S, 16514.,39.160,.23713,16542.,16486.
Y_2243,224.306 {450},Cts/S, 26374.,48.217,.18282,26408.,26340.
Y_3600,360.073 { 94},Cts/S, 209760.,965.95,.46051,210440.,209080.
Y_3710,371.030 { 91},Cts/S, 47606.,1541.2,3.2375,46516.,48696.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:18:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0010,10940., .0007, -.0007
Al3082,308.215 {109},In2306,ppm, -.0081,.0133,164.1, .0013, -.0175
As1890,189.042 {478},Y_2243,ppm, -.0015,.0004,26.45, -.0018, -.0012
B_2496,249.678 {135},Y_3710,ppm, -.0031,.0050,163.8, .0005, -.0066
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0000,105.4, .0001, .0000
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,141.7, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0049,.0029,59.33, .0070, .0028
Ca3181,318.128 {106},In2306,ppm, .0204,.0027,13.45, .0185, .0223
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,7.326, -.0002, -.0001
Co2286,228.616 {447},In2306,ppm, -.0001,.0000,15.37, -.0001, -.0001
Cr2677,267.716 {126},Y_3600,ppm, -.0004,.0002,64.01, -.0002, -.0005
Cu3247,324.754 {104},Y_3600,ppm, .0008,.0002,24.57, .0010, .0007
Fe2404,240.488 {140},In2306,ppm, -.0016,.0030,192.5, -.0037, .0006
K_7664,766.490 { 44},Y_3710,ppm, -.0188,.0237,126.1, -.0020, -.0355
K_7698,769.896 { 44},Y_3710,ppm, .0496,.0267,53.89, .0307, .0685
Li6707,670.784 { 50},Y_3710,ppm, -.0003,.0001,36.05, -.0004, -.0003
Mg2790,279.079 {121},Y_3710,ppm, .0069,.0081,117.7, .0011, .0126
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0001,37.28, .0002, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0006,.0009,149.4, .0012, .0000
Mo2020,202.030 {467},Y_2243,ppm, .0002,.0001,51.95, .0003, .0001
Na5895,589.592 { 57},Y_3710,ppm, -.0123,.0031,25.09, -.0101, -.0145
Na8183,818.326 { 41},Y_3710,ppm, .1868,.1451,77.72, .0841, .2894
Ni2316,231.604 {445},In2306,ppm, .0000,.0002,773.3, .0002, -.0001
P_1782,178.284 {489},In2306,ppm, -.0014,.0003,22.85, -.0016, -.0011
Pb2203,220.353 {453},In2306,ppm, -.0003,.0003,95.89, -.0005, -.0001
S_1820,182.034 {485},Y_2243,ppm, .0994,.0547,54.98, .0608, .1381
Sb2068,206.833 {463},Y_2243,ppm, .0005,.0011,203.0, -.0002, .0013
Se1960,196.090 {472},Y_2243,ppm, .0001,.0004,296.3, .0004, -.0001
Si2516,251.611 {134},Y_3710,ppm, .0024,.0024,100.1, .0042, .0007

```
Sn1899,189.989 {477},In2306,ppm, -.0018,.0009,49.90, -.0024, -.0011
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,110.3, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0005,.0003,58.44, -.0003, -.0007
Tl1908,190.856 {477},In2306,ppm, .0008,.0005,67.71, .0004, .0011
V_2924,292.402 {115},Y_3600,ppm, .0004,.0000,.9307, .0004, .0004
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,40.15, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 899.09,7.7923,.86668,893.58,904.60
In2306,230.606 {446},Cts/S, 16615.,35.872,.21589,16641.,16590.
Y_2243,224.306 {450},Cts/S, 26353.,.20760,.00079,26353.,26353.
Y_3600,360.073 { 94},Cts/S, 209170.,515.63,.24651,209530.,208810.
Y_3710,371.030 { 91},Cts/S, 48337.,252.33,.52203,48158.,48515.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=mb 600-91612/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:21:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0020,1263., -.0013, .0016
Al3082,308.215 {109},In2306,ppm, -.0134,.0115,85.96, -.0215, -.0053
As1890,189.042 {478},Y_2243,ppm, -.0021,.0002,8.887, -.0023, -.0020
B_2496,249.678 {135},Y_3710,ppm, -.0049,.0012,24.70, -.0040, -.0058
Ba4554,455.403 { 74},Y_3710,ppm, .0006,.0001,9.504, .0006, .0006
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,42.87, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, -.0010,.0065,627.1, .0035, -.0056
Ca3181,318.128 {106},In2306,ppm, .0143,.0132,92.55, .0049, .0237
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,11.84, -.0001, -.0001
Co2286,228.616 {447},In2306,ppm, -.0001,.0001,112.1, .0000, -.0002
Cr2677,267.716 {126},Y_3600,ppm, -.0002,.0001,58.87, -.0001, -.0003
Cu3247,324.754 {104},Y_3600,ppm, .0009,.0003,28.14, .0011, .0007
Fe2404,240.488 {140},In2306,ppm, .0015,.0014,97.02, .0005, .0025
K_7664,766.490 { 44},Y_3710,ppm, -.0227,.0211,93.12, -.0077, -.0376
K_7698,769.896 { 44},Y_3710,ppm, .0037,.0115,308.8, .0119, -.0044
Li6707,670.784 { 50},Y_3710,ppm, -.0012,.0016,134.4, -.0001, -.0023
Mg2790,279.079 {121},Y_3710,ppm, .0185,.0109,59.01, .0108, .0261
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0002,365.1, -.0002, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0002,.0002,67.79, .0004, .0001
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0004,129.1, .0000, .0007
Na5895,589.592 { 57},Y_3710,ppm, -.0148,.0053,35.66, -.0185, -.0110
Na8183,818.326 { 41},Y_3710,ppm, .1872,.0407,21.74, .2160, .1584
Ni2316,231.604 {445},In2306,ppm, -.0001,.0000,32.37, -.0001, -.0001
P_1782,178.284 {489},In2306,ppm, -.0021,.0005,21.44, -.0018, -.0025
Pb2203,220.353 {453},In2306,ppm, -.0006,.0009,150.8, -.0013, .0000
S_1820,182.034 {485},Y_2243,ppm, -.1246,.2361,189.4, -.2916, .0423
Sb2068,206.833 {463},Y_2243,ppm, .0003,.0011,395.7, -.0005, .0011
Se1960,196.090 {472},Y_2243,ppm, .0002,.0003,175.4, .0004, .0000
Si2516,251.611 {134},Y_3710,ppm, -.0009,.0095,1003., -.0077, .0058
Sn1899,189.989 {477},In2306,ppm, -.0004,.0003,62.96, -.0002, -.0006
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0001,220.7, .0000, .0001
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0003,191.2, -.0004, .0001
```

Tl1908,190.856 {477},In2306,ppm, .0001,.0005,581.1, .0005, -.0003
V_2924,292.402 {115},Y_3600,ppm, .0004,.0001,30.73, .0003, .0004
Zn2062,206.200 {463},In2306,ppm, .0015,.0001,3.511, .0015, .0014

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 900.39,6.9334,.77004,905.30,895.49
In2306,230.606 {446},Cts/S, 16679.,1.6270,.00975,16681.,16678.
Y_2243,224.306 {450},Cts/S, 26462.,39.541,.14943,26434.,26490.
Y_3600,360.073 { 94},Cts/S, 210160.,913.82,.43483,210800.,209510.
Y_3710,371.030 { 91},Cts/S, 48956.,101.70,.20774,49028.,48884.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=lcs 600-91612/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:23:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5287,.0018,.3383, .5274, .5299
Al3082,308.215 {109},In2306,ppm, 10.18,.0655,.6433, 10.23, 10.13
As1890,189.042 {478},Y_2243,ppm, 1.037,.0045,.4313, 1.040, 1.034
B_2496,249.678 {135},Y_3710,ppm, 1.009,.0049,.4866, 1.005, 1.012
Ba4554,455.403 { 74},Y_3710,ppm, 1.017,.0019,.1840, 1.019, 1.016
Be3130,313.042 {108},Y_3710,ppm, .5181,.0019,.3759, .5167, .5195
Ca3158,315.887 {107},In2306,ppm, 10.41,.0269,.2582, 10.39, 10.43
Ca3181,318.128 {106},In2306,ppm, 10.12,.0092,.0913, 10.13, 10.11
Cd2288,228.802 {447},Y_2243,ppm, .5130,.0015,.2969, .5119, .5141
Co2286,228.616 {447},In2306,ppm, 1.001,.0021,.2112, 1.003, .9999
Cr2677,267.716 {126},Y_3600,ppm, 1.016,.0032,.3121, 1.018, 1.014
Cu3247,324.754 {104},Y_3600,ppm, 1.033,.0058,.5651, 1.037, 1.029
Fe2404,240.488 {140},In2306,ppm, 10.36,.0184,.1774, 10.37, 10.34
K_7664,766.490 { 44},Y_3710,ppm, 10.20,.0213,.2090, 10.21, 10.18
K_7698,769.896 { 44},Y_3710,ppm, 10.24,.0160,.1558, 10.23, 10.25
Li6707,670.784 { 50},Y_3710,ppm, .5135,.0002,.0403, .5134, .5137
Mg2790,279.079 {121},Y_3710,ppm, 10.25,.1150,1.122, 10.17, 10.33
Mn2576,257.610 {131},Y_3600,ppm, 1.052,.0044,.4165, 1.055, 1.049
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.049,.0172,1.643, 1.036, 1.061
Mo2020,202.030 {467},Y_2243,ppm, 1.098,.0016,.1435, 1.099, 1.097
Na5895,589.592 { 57},Y_3710,ppm, 10.29,.0077,.0753, 10.28, 10.29
Na8183,818.326 { 41},Y_3710,ppm, 10.24,.1209,1.181, 10.33, 10.16
Ni2316,231.604 {445},In2306,ppm, 1.010,.0016,.1547, 1.012, 1.009
P_1782,178.284 {489},In2306,ppm, -.0017,.0005,27.39, -.0014, -.0021
Pb2203,220.353 {453},In2306,ppm, 1.005,.0043,.4251, 1.008, 1.002
S_1820,182.034 {485},Y_2243,ppm, -.0203,.1160,571.7, -.1023, .0618
Sb2068,206.833 {463},Y_2243,ppm, 1.034,.0023,.2193, 1.033, 1.036
Se1960,196.090 {472},Y_2243,ppm, 1.052,.0035,.3289, 1.050, 1.055
Si2516,251.611 {134},Y_3710,ppm, 1.040,.0125,1.201, 1.031, 1.049
Sn1899,189.989 {477},In2306,ppm, 1.024,.0014,.1403, 1.025, 1.023
Sr4215,421.552 { 80},Y_3710,ppm, .5222,.0013,.2410, .5213, .5230
Ti3349,334.904 {101},Y_3600,ppm, 1.013,.0042,.4174, 1.016, 1.010
Tl1908,190.856 {477},In2306,ppm, 1.016,.0039,.3882, 1.019, 1.014
V_2924,292.402 {115},Y_3600,ppm, 1.032,.0060,.5799, 1.036, 1.028
Zn2062,206.200 {463},In2306,ppm, .9902,.0040,.4065, .9931, .9874

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 887.12,.85849,.09677,887.73,886.51
In2306,230.606 {446},Cts/S, 15366.,3.5920,.02338,15369.,15364.
Y_2243,224.306 {450},Cts/S, 25923.,38.216,.14742,25950.,25896.
Y_3600,360.073 { 94},Cts/S, 205050.,1022.9,.49883,204330.,205770.
Y_3710,371.030 { 91},Cts/S, 49076.,346.00,.70503,49321.,48832.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63151-d-1-a@50
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:25:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0003,.0006,211.2, -.0001, .0007
Al3082,308.215 {109},In2306,ppm, -.0081,.0051,62.60, -.0045, -.0117
As1890,189.042 {478},Y_2243,ppm, -.0006,.0009,141.5, -.0012, .0000
B_2496,249.678 {135},Y_3710,ppm, .0004,.0029,679.1, .0025, -.0016
Ba4554,455.403 { 74},Y_3710,ppm, .0010,.0000,4.635, .0010, .0010
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,30.68, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .9370,.0091,.9756, .9305, .9434
Ca3181,318.128 {106},In2306,ppm, .9100,.0208,2.282, .8953, .9247
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0002,347.2, -.0001, .0002
Co2286,228.616 {447},In2306,ppm, .0003,.0003,117.8, .0000, .0005
Cr2677,267.716 {126},Y_3600,ppm, .0000,.0001,363.6, .0001, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0016,.0004,23.92, .0018, .0013
Fe2404,240.488 {140},In2306,ppm, .0668,.0005,.7605, .0671, .0664
K_7664,766.490 { 44},Y_3710,ppm, 7.879,.0055,.0696, 7.875, 7.883
K_7698,769.896 { 44},Y_3710,ppm, 8.000,.0368,.4599, 7.974, 8.026
Li6707,670.784 { 50},Y_3710,ppm, .0004,.0004,96.75, .0007, .0001
Mg2790,279.079 {121},Y_3710,ppm, .0775,.0236,30.51, .0942, .0608
Mn2576,257.610 {131},Y_3600,ppm, .0054,.0000,.2681, .0053, .0054
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0061,.0007,11.57, .0066, .0056
Mo2020,202.030 {467},Y_2243,ppm, .0024,.0006,24.84, .0019, .0028
Na5895,589.592 { 57},Y_3710,ppm, 31.96,.0960,.3004, 31.89, 32.03
Na8183,818.326 { 41},Y_3710,ppm, 31.45,.1132,.3600, 31.53, 31.37
Ni2316,231.604 {445},In2306,ppm, .0003,.0004,130.3, .0000, .0006
P_1782,178.284 {489},In2306,ppm, .1266,.0003,.2467, .1268, .1264
Pb2203,220.353 {453},In2306,ppm, -.0001,.0005,390.5, -.0004, .0002
S_1820,182.034 {485},Y_2243,ppm, -631.6,3.113,.4929, -629.4, -633.8
Sb2068,206.833 {463},Y_2243,ppm, .0038,.0014,36.33, .0028, .0048
Se1960,196.090 {472},Y_2243,ppm, -.0006,.0013,217.6, .0003, -.0015
Si2516,251.611 {134},Y_3710,ppm, .1273,.0035,2.786, .1298, .1247
Sn1899,189.989 {477},In2306,ppm, .0003,.0003,99.23, .0001, .0006
Sr4215,421.552 { 80},Y_3710,ppm, .0048,.0000,.2793, .0048, .0048
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0001,82.29, -.0002, .0000
Tl1908,190.856 {477},In2306,ppm, .0064,.0054,84.50, .0026, .0102
V_2924,292.402 {115},Y_3600,ppm, .0006,.0000,2.085, .0006, .0006
Zn2062,206.200 {463},In2306,ppm, .0048,.0003,6.420, .0045, .0050

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

In2306,230.606 {146},Cts/S, 888.54,4.8935,.55074,892.00,885.08
In2306,230.606 {446},Cts/S, 15546.,3.6183,.02327,15544.,15549.
Y_2243,224.306 {450},Cts/S, 25736.,29.082,.11300,25757.,25716.
Y_3600,360.073 { 94},Cts/S, 203630.,179.69,.08824,203510.,203760.
Y_3710,371.030 { 91},Cts/S, 48182.,109.06,.22636,48259.,48105.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63145-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:28:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0006,.0013,218.3, .0003, -.0015
Al3082,308.215 {109},In2306,ppm, .0009,.0027,288.5, -.0010, .0029
As1890,189.042 {478},Y_2243,ppm, .0013,.0017,138.1, .0000, .0025
B_2496,249.678 {135},Y_3710,ppm, .1972,.0005,.2527, .1976, .1969
Ba4554,455.403 { 74},Y_3710,ppm, .1601,.0003,.1985, .1598, .1603
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,108.1, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 49.64,.8707,1.754, 50.25, 49.02
Ca3181,318.128 {106},In2306,ppm, 47.97,.8779,1.830, 48.59, 47.35
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,21.96, .0000, .0000
Co2286,228.616 {447},In2306,ppm, -.0003,.0000,11.15, -.0003, -.0003
Cr2677,267.716 {126},Y_3600,ppm, .0004,.0001,22.84, .0005, .0004
Cu3247,324.754 {104},Y_3600,ppm, .0143,.0003,2.094, .0141, .0145
Fe2404,240.488 {140},In2306,ppm, .0103,.0027,25.85, .0084, .0122
K_7664,766.490 { 44},Y_3710,ppm, 10.27,.0560,.5448, 10.23, 10.31
K_7698,769.896 { 44},Y_3710,ppm, 10.28,.0357,.3469, 10.26, 10.31
Li6707,670.784 { 50},Y_3710,ppm, .0122,.0000,.2498, .0122, .0122
Mg2790,279.079 {121},Y_3710,ppm, 5.501,.0035,.0635, 5.498, 5.503
Mn2576,257.610 {131},Y_3600,ppm, .0020,.0000,1.426, .0020, .0020
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0032,.0001,1.779, .0033, .0032
Mo2020,202.030 {467},Y_2243,ppm, .0006,.0004,67.46, .0008, .0003
Na5895,589.592 { 57},Y_3710,ppm, 77.69,.0497,.0640, 77.73, 77.66
Na8183,818.326 { 41},Y_3710,ppm, 76.29,.4248,.5568, 75.99, 76.59
Ni2316,231.604 {445},In2306,ppm, .0004,.0002,38.22, .0003, .0005
P_1782,178.284 {489},In2306,ppm, 3.943,.0175,.4434, 3.955, 3.930
Pb2203,220.353 {453},In2306,ppm, .0004,.0006,141.6, .0008, .0000
S_1820,182.034 {485},Y_2243,ppm, -1376.,2.655,.1929, -1378., -1374.
Sb2068,206.833 {463},Y_2243,ppm, -.0002,.0006,244.2, .0002, -.0006
Se1960,196.090 {472},Y_2243,ppm, .0003,.0009,259.5, -.0003, .0010
Si2516,251.611 {134},Y_3710,ppm, 11.81,.0557,.4715, 11.77, 11.85
Sn1899,189.989 {477},In2306,ppm, -.0002,.0006,349.5, -.0006, .0002
Sr4215,421.552 { 80},Y_3710,ppm, .2567,.0002,.0728, .2566, .2568
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0001,34.80, .0005, .0003
Tl1908,190.856 {477},In2306,ppm, .0013,.0001,11.14, .0014, .0012
V_2924,292.402 {115},Y_3600,ppm, .0032,.0001,4.220, .0031, .0033
Zn2062,206.200 {463},In2306,ppm, .0552,.0002,.2733, .0553, .0551

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 876.83,16.374,1.8675,865.25,888.41
In2306,230.606 {446},Cts/S, 14446.,1.7674,.01223,14448.,14445.
Y_2243,224.306 {450},Cts/S, 24908.,22.064,.08859,24892.,24923.

Y_3600,360.073 { 94},Cts/S, 196490.,538.19,.27390,196870.,196110.
Y_3710,371.030 { 91},Cts/S, 48549.,53.374,.10994,48512.,48587.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63145-d-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:30:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0010,.0008,80.08, .0004, .0015
Al3082,308.215 {109},In2306,ppm, -.0048,.0110,231.2, -.0125, .0030
As1890,189.042 {478},Y_2243,ppm, .0018,.0001,6.615, .0019, .0017
B_2496,249.678 {135},Y_3710,ppm, .1958,.0012,.6219, .1967, .1950
Ba4554,455.403 { 74},Y_3710,ppm, .1624,.0001,.0395, .1625, .1624
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,595.7, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 50.37,.5479,1.088, 50.76, 49.98
Ca3181,318.128 {106},In2306,ppm, 48.29,.4628,.9584, 48.62, 47.96
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,8.547, .0001, .0001
Co2286,228.616 {447},In2306,ppm, -.0002,.0000,3.323, -.0002, -.0002
Cr2677,267.716 {126},Y_3600,ppm, .0008,.0005,62.16, .0011, .0004
Cu3247,324.754 {104},Y_3600,ppm, .0144,.0003,2.364, .0146, .0141
Fe2404,240.488 {140},In2306,ppm, .0147,.0007,4.737, .0151, .0142
K_7664,766.490 { 44},Y_3710,ppm, 10.41,.0098,.0944, 10.42, 10.40
K_7698,769.896 { 44},Y_3710,ppm, 10.52,.0222,.2107, 10.51, 10.54
Li6707,670.784 { 50},Y_3710,ppm, .0115,.0003,2.944, .0117, .0112
Mg2790,279.079 {121},Y_3710,ppm, 5.604,.0207,.3701, 5.618, 5.589
Mn2576,257.610 {131},Y_3600,ppm, .0020,.0002,9.238, .0021, .0019
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0025,.0008,30.46, .0020, .0031
Mo2020,202.030 {467},Y_2243,ppm, .0010,.0001,8.245, .0011, .0010
Na5895,589.592 { 57},Y_3710,ppm, 78.77,.0812,.1030, 78.83, 78.72
Na8183,818.326 { 41},Y_3710,ppm, 77.84,.0189,.0242, 77.82, 77.85
Ni2316,231.604 {445},In2306,ppm, .0002,.0000,7.737, .0002, .0003
P_1782,178.284 {489},In2306,ppm, 4.025,.0183,.4539, 4.038, 4.013
Pb2203,220.353 {453},In2306,ppm, .0009,.0006,65.13, .0013, .0005
S_1820,182.034 {485},Y_2243,ppm, -1396.,12.10,.8665, -1405., -1388.
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0008,64.74, -.0018, -.0007
Se1960,196.090 {472},Y_2243,ppm, .0008,.0001,12.17, .0009, .0007
Si2516,251.611 {134},Y_3710,ppm, 12.01,.0559,.4651, 12.05, 11.97
Sn1899,189.989 {477},In2306,ppm, -.0009,.0009,99.92, -.0015, -.0003
Sr4215,421.552 { 80},Y_3710,ppm, .2604,.0007,.2529, .2609, .2599
Ti3349,334.904 {101},Y_3600,ppm, .0006,.0001,10.61, .0006, .0005
Tl1908,190.856 {477},In2306,ppm, .0003,.0002,45.78, .0004, .0002
V_2924,292.402 {115},Y_3600,ppm, .0033,.0002,7.307, .0034, .0031
Zn2062,206.200 {463},In2306,ppm, .0566,.0005,.9150, .0569, .0562

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 875.51,13.138,1.5006,866.22,884.80
In2306,230.606 {446},Cts/S, 14347.,76.272,.53162,14293.,14401.
Y_2243,224.306 {450},Cts/S, 24706.,133.32,.53965,24611.,24800.
Y_3600,360.073 { 94},Cts/S, 196130.,747.88,.38133,196660.,195600.
Y_3710,371.030 { 91},Cts/S, 47952.,422.43,.88094,47654.,48251.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63145-d-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:33:04
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5591,.0024,.4358, .5574, .5608
Al3082,308.215 {109},In2306,ppm, 10.32,.0003,.0026, 10.32, 10.32
As1890,189.042 {478},Y_2243,ppm, 1.066,.0016,.1541, 1.065, 1.067
B_2496,249.678 {135},Y_3710,ppm, 1.210,.0003,.0208, 1.210, 1.210
Ba4554,455.403 { 74},Y_3710,ppm, 1.182,.0033,.2814, 1.184, 1.180
Be3130,313.042 {108},Y_3710,ppm, .5196,.0016,.2993, .5207, .5185
Ca3158,315.887 {107},In2306,ppm, 62.17,.2292,.3686, 62.33, 62.01
Ca3181,318.128 {106},In2306,ppm, 59.46,.2827,.4754, 59.66, 59.26
Cd2288,228.802 {447},Y_2243,ppm, .5204,.0006,.1244, .5199, .5208
Co2286,228.616 {447},In2306,ppm, 1.030,.0020,.1987, 1.031, 1.028
Cr2677,267.716 {126},Y_3600,ppm, 1.025,.0048,.4649, 1.021, 1.028
Cu3247,324.754 {104},Y_3600,ppm, 1.058,.0005,.0513, 1.058, 1.058
Fe2404,240.488 {140},In2306,ppm, 10.35,.0594,.5738, 10.39, 10.31
K_7664,766.490 { 44},Y_3710,ppm, 20.65,.0618,.2992, 20.69, 20.61
K_7698,769.896 { 44},Y_3710,ppm, 20.70,.0542,.2620, 20.74, 20.66
Li6707,670.784 { 50},Y_3710,ppm, .5256,.0011,.2158, .5264, .5248
Mg2790,279.079 {121},Y_3710,ppm, 15.50,.1306,.8421, 15.60, 15.41
Mn2576,257.610 {131},Y_3600,ppm, 1.068,.0095,.8913, 1.062, 1.075
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.056,.0016,.1534, 1.057, 1.054
Mo2020,202.030 {467},Y_2243,ppm, 1.123,.0079,.7058, 1.117, 1.129
Na5895,589.592 { 57},Y_3710,ppm, 88.82,.2812,.3166, 89.02, 88.62
Na8183,818.326 { 41},Y_3710,ppm, 87.58,.3847,.4393, 87.85, 87.30
Ni2316,231.604 {445},In2306,ppm, 1.046,.0019,.1808, 1.047, 1.044
P_1782,178.284 {489},In2306,ppm, 4.070,.0006,.0135, 4.071, 4.070
Pb2203,220.353 {453},In2306,ppm, 1.015,.0010,.0978, 1.016, 1.015
S_1820,182.034 {485},Y_2243,ppm, -1393.,.9789,.0703, -1392., -1393.
Sb2068,206.833 {463},Y_2243,ppm, 1.043,.0035,.3396, 1.041, 1.046
Se1960,196.090 {472},Y_2243,ppm, 1.082,.0027,.2512, 1.084, 1.080
Si2516,251.611 {134},Y_3710,ppm, 13.05,.0285,.2186, 13.07, 13.03
Sn1899,189.989 {477},In2306,ppm, 1.089,.0020,.1848, 1.091, 1.088
Sr4215,421.552 { 80},Y_3710,ppm, .7830,.0030,.3815, .7852, .7809
Ti3349,334.904 {101},Y_3600,ppm, 1.019,.0029,.2868, 1.017, 1.021
Tl1908,190.856 {477},In2306,ppm, .9924,.0052,.5215, .9960, .9887
V_2924,292.402 {115},Y_3600,ppm, 1.061,.0023,.2143, 1.060, 1.063
Zn2062,206.200 {463},In2306,ppm, 1.090,.0029,.2615, 1.092, 1.088

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 863.55,4.6891,.54300,860.24,866.87
In2306,230.606 {446},Cts/S, 13979.,14.703,.10518,13969.,13989.
Y_2243,224.306 {450},Cts/S, 24787.,23.241,.09376,24804.,24771.
Y_3600,360.073 { 94},Cts/S, 193330.,420.89,.21770,193630.,193030.
Y_3710,371.030 { 91},Cts/S, 48497.,114.49,.23608,48416.,48578.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63145-d-1-d msd

Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:35:11
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .5607,.0030,.5295, .5586, .5628
Al3082,308.215 {109},In2306,ppm, 10.27,.0291,.2832, 10.25, 10.29
As1890,189.042 {478},Y_2243,ppm, 1.074,.0033,.3112, 1.076, 1.071
B_2496,249.678 {135},Y_3710,ppm, 1.201,.0117,.9715, 1.192, 1.209
Ba4554,455.403 { 74},Y_3710,ppm, 1.181,.0011,.0912, 1.182, 1.180
Be3130,313.042 {108},Y_3710,ppm, .5220,.0010,.1981, .5213, .5228
Ca3158,315.887 {107},In2306,ppm, 61.76,.3592,.5815, 61.51, 62.01
Ca3181,318.128 {106},In2306,ppm, 58.80,.3666,.6234, 58.54, 59.06
Cd2288,228.802 {447},Y_2243,ppm, .5219,.0001,.0188, .5220, .5218
Co2286,228.616 {447},In2306,ppm, 1.033,.0001,.0080, 1.033, 1.032
Cr2677,267.716 {126},Y_3600,ppm, 1.026,.0031,.3025, 1.024, 1.028
Cu3247,324.754 {104},Y_3600,ppm, 1.055,.0068,.6418, 1.060, 1.051
Fe2404,240.488 {140},In2306,ppm, 10.32,.0516,.4996, 10.29, 10.36
K_7664,766.490 { 44},Y_3710,ppm, 20.60,.0051,.0247, 20.60, 20.60
K_7698,769.896 { 44},Y_3710,ppm, 20.72,.0849,.4099, 20.78, 20.66
Li6707,670.784 { 50},Y_3710,ppm, .5266,.0035,.6725, .5291, .5241
Mg2790,279.079 {121},Y_3710,ppm, 15.50,.0796,.5132, 15.45, 15.56
Mn2576,257.610 {131},Y_3600,ppm, 1.080,.0011,.1015, 1.081, 1.079
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.070,.0005,.0486, 1.069, 1.070
Mo2020,202.030 {467},Y_2243,ppm, 1.133,.0040,.3539, 1.136, 1.131
Na5895,589.592 { 57},Y_3710,ppm, 88.15,.1868,.2119, 88.28, 88.02
Na8183,818.326 { 41},Y_3710,ppm, 87.21,.0503,.0577, 87.17, 87.24
Ni2316,231.604 {445},In2306,ppm, 1.046,.0029,.2801, 1.048, 1.044
P_1782,178.284 {489},In2306,ppm, 4.021,.0067,.1666, 4.016, 4.026
Pb2203,220.353 {453},In2306,ppm, 1.017,.0006,.0597, 1.017, 1.016
S_1820,182.034 {485},Y_2243,ppm, -1382.,1.013,.0733, -1383., -1381.
Sb2068,206.833 {463},Y_2243,ppm, 1.049,.0002,.0234, 1.049, 1.050
Se1960,196.090 {472},Y_2243,ppm, 1.087,.0041,.3742, 1.084, 1.090
Si2516,251.611 {134},Y_3710,ppm, 13.03,.0213,.1637, 13.02, 13.05
Sn1899,189.989 {477},In2306,ppm, 1.093,.0033,.3065, 1.095, 1.090
Sr4215,421.552 { 80},Y_3710,ppm, .7816,.0025,.3214, .7834, .7798
Ti3349,334.904 {101},Y_3600,ppm, 1.019,.0020,.1919, 1.017, 1.020
Tl1908,190.856 {477},In2306,ppm, .9951,.0010,.1029, .9944, .9958
V_2924,292.402 {115},Y_3600,ppm, 1.062,.0018,.1738, 1.061, 1.064
Zn2062,206.200 {463},In2306,ppm, 1.090,.0022,.1987, 1.092, 1.089

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 864.36,8.4193,.97405,870.31,858.40
In2306,230.606 {446},Cts/S, 14007.,20.142,.14380,14021.,13993.
Y_2243,224.306 {450},Cts/S, 24803.,47.402,.19111,24837.,24770.
Y_3600,360.073 { 94},Cts/S, 193700.,213.62,.11029,193850.,193550.
Y_3710,371.030 { 91},Cts/S, 48190.,526.24,1.0920,48562.,47817.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63163-b-2-a
Username=admin
Comment=
Custom ID1=

Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:37:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0011,161.4, .0014, -.0001
Al3082,308.215 {109},In2306,ppm, .1643,.0073,4.423, .1591, .1694
As1890,189.042 {478},Y_2243,ppm, .0021,.0046,214.4, -.0011, .0054
B_2496,249.678 {135},Y_3710,ppm, .3946,.0031,.7864, .3968, .3924
Ba4554,455.403 { 74},Y_3710,ppm, .1860,.0001,.0484, .1859, .1861
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,73.36, .0001, .0002
Ca3158,315.887 {107},In2306,ppm, 895.5,6.505,.7265, 900.1, 890.9
Ca3181,318.128 {106},In2306,ppm, 871.3,10.96,1.258, 863.6, 879.1
Cd2288,228.802 {447},Y_2243,ppm, .0015,.0018,127.0, .0001, .0028
Co2286,228.616 {447},In2306,ppm, .0033,.0041,126.0, .0004, .0062
Cr2677,267.716 {126},Y_3600,ppm, .2022,.0015,.7412, .2033, .2012
Cu3247,324.754 {104},Y_3600,ppm, .0051,.0002,4.497, .0049, .0052
Fe2404,240.488 {140},In2306,ppm, .0064,.0022,35.30, .0080, .0048
K_7664,766.490 { 44},Y_3710,ppm, 181.7,.6327,.3482, 181.2, 182.1
K_7698,769.896 { 44},Y_3710,ppm, 181.1,.3889,.2147, 180.8, 181.4
Li6707,670.784 { 50},Y_3710,ppm, .0543,.0002,.3956, .0544, .0541
Mg2790,279.079 {121},Y_3710,ppm, 3.778,.0051,.1349, 3.782, 3.775
Mn2576,257.610 {131},Y_3600,ppm, .0137,.0001,.4607, .0138, .0137
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0133,.0002,1.675, .0131, .0134
Mo2020,202.030 {467},Y_2243,ppm, 1.156,.0009,.0800, 1.157, 1.155
Na5895,589.592 { 57},Y_3710,ppm, 487.8,8.462,1.735, 493.8, 481.8
Na8183,818.326 { 41},Y_3710,ppm, 489.0,1.238,.2531, 488.1, 489.9
Ni2316,231.604 {445},In2306,ppm, .1142,.0035,3.049, .1117, .1167
P_1782,178.284 {489},In2306,ppm, 4.423,.0016,.0354, 4.425, 4.422
Pb2203,220.353 {453},In2306,ppm, .0016,.0036,229.2, -.0010, .0041
S_1820,182.034 {485},Y_2243,ppm, -111300.,214.0,.1923, -111200., -111500.
Sb2068,206.833 {463},Y_2243,ppm, .0127,.0054,42.75, .0088, .0165
Se1960,196.090 {472},Y_2243,ppm, .0051,.0039,76.80, .0023, .0078
Si2516,251.611 {134},Y_3710,ppm, 9.794,.0461,.4711, 9.761, 9.826
Sn1899,189.989 {477},In2306,ppm, .0029,.0051,176.3, -.0007, .0065
Sr4215,421.552 { 80},Y_3710,ppm, 1.332,.0047,.3513, 1.328, 1.335
Ti3349,334.904 {101},Y_3600,ppm, .0049,.0003,5.417, .0051, .0048
Tl1908,190.856 {477},In2306,ppm, .0162,.0137,84.54, .0065, .0258
V_2924,292.402 {115},Y_3600,ppm, .0015,.0001,6.196, .0015, .0016
Zn2062,206.200 {463},In2306,ppm, .1381,.0041,2.974, .1352, .1410

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 795.62,9.8372,1.2364,802.57,788.66
In2306,230.606 {446},Cts/S, 11209.,26.987,.24077,11228.,11190.
Y_2243,224.306 {450},Cts/S, 21384.,33.053,.15457,21407.,21361.
Y_3600,360.073 { 94},Cts/S, 167470.,696.06,.41564,166970.,167960.
Y_3710,371.030 { 91},Cts/S, 45053.,160.83,.35698,45167.,44939.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63163-b-3-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:39:55

Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0004,.0007,155.0, -.0009, .0000
Al3082,308.215 {109},In2306,ppm, .2033,.0034,1.648, .2010, .2057
As1890,189.042 {478},Y_2243,ppm, -.0004,.0015,382.3, -.0014, .0006
B_2496,249.678 {135},Y_3710,ppm, .3822,.0033,.8698, .3799, .3846
Ba4554,455.403 { 74},Y_3710,ppm, .1927,.0005,.2441, .1931, .1924
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,50.31, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 882.5,.2359,.0267, 882.7, 882.4
Ca3181,318.128 {106},In2306,ppm, 876.0,6.060,.6918, 880.3, 871.7
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,20.11, .0002, .0002
Co2286,228.616 {447},In2306,ppm, .0003,.0000,5.293, .0004, .0003
Cr2677,267.716 {126},Y_3600,ppm, .2265,.0001,.0598, .2264, .2266
Cu3247,324.754 {104},Y_3600,ppm, .0047,.0004,9.057, .0050, .0044
Fe2404,240.488 {140},In2306,ppm, .0167,.0032,19.40, .0190, .0144
K_7664,766.490 { 44},Y_3710,ppm, 177.1,.5138,.2902, 177.4, 176.7
K_7698,769.896 { 44},Y_3710,ppm, 176.0,.4451,.2528, 176.3, 175.7
Li6707,670.784 { 50},Y_3710,ppm, .0542,.0002,.3604, .0544, .0541
Mg2790,279.079 {121},Y_3710,ppm, 3.781,.0206,.5458, 3.796, 3.767
Mn2576,257.610 {131},Y_3600,ppm, .0140,.0002,1.186, .0141, .0139
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0143,.0011,7.927, .0135, .0152
Mo2020,202.030 {467},Y_2243,ppm, 1.120,.0061,.5406, 1.125, 1.116
Na5895,589.592 { 57},Y_3710,ppm, 473.6,1.249,.2638, 474.5, 472.8
Na8183,818.326 { 41},Y_3710,ppm, 485.6,.6403,.1319, 486.0, 485.1
Ni2316,231.604 {445},In2306,ppm, .1215,.0002,.1965, .1216, .1213
P_1782,178.284 {489},In2306,ppm, 4.402,.0020,.0446, 4.404, 4.401
Pb2203,220.353 {453},In2306,ppm, -.0002,.0014,853.7, -.0012, .0008
S_1820,182.034 {485},Y_2243,ppm, -110600.,400.3,.3620, -110900., -110300.
Sb2068,206.833 {463},Y_2243,ppm, .0042,.0006,14.13, .0038, .0046
Se1960,196.090 {472},Y_2243,ppm, .0022,.0006,27.71, .0027, .0018
Si2516,251.611 {134},Y_3710,ppm, 9.838,.0397,.4037, 9.866, 9.809
Sn1899,189.989 {477},In2306,ppm, .0009,.0010,102.0, .0016, .0003
Sr4215,421.552 { 80},Y_3710,ppm, 1.315,.0027,.2037, 1.317, 1.313
Ti3349,334.904 {101},Y_3600,ppm, .0045,.0003,7.570, .0047, .0043
Tl1908,190.856 {477},In2306,ppm, .0028,.0023,84.71, .0011, .0044
V_2924,292.402 {115},Y_3600,ppm, .0016,.0000,1.502, .0016, .0016
Zn2062,206.200 {463},In2306,ppm, .1475,.0001,.0971, .1474, .1476

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 794.90,6.4999,.81770,790.31,799.50
In2306,230.606 {446},Cts/S, 11186.,1.7633,.01576,11187.,11184.
Y_2243,224.306 {450},Cts/S, 21290.,9.4504,.04439,21283.,21297.
Y_3600,360.073 { 94},Cts/S, 167860.,564.67,.33639,167460.,168260.
Y_3710,371.030 { 91},Cts/S, 45555.,201.83,.44305,45412.,45697.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63163-b-4-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:42:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000

Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0018,.0006,33.33, -.0023, -.0014
Al3082,308.215 {109},In2306,ppm, .2951,.0083,2.800, .2893, .3010
As1890,189.042 {478},Y_2243,ppm, .0004,.0010,244.6, .0012, -.0003
B_2496,249.678 {135},Y_3710,ppm, .3298,.0046,1.381, .3330, .3266
Ba4554,455.403 { 74},Y_3710,ppm, .1533,.0005,.3235, .1529, .1536
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,21.48, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 779.6,9.202,1.180, 773.1, 786.1
Ca3181,318.128 {106},In2306,ppm, 764.6,1.143,.1495, 763.8, 765.4
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,60.47, .0001, .0000
Co2286,228.616 {447},In2306,ppm, .0012,.0001,9.473, .0011, .0013
Cr2677,267.716 {126},Y_3600,ppm, .1803,.0003,.1888, .1801, .1806
Cu3247,324.754 {104},Y_3600,ppm, .0068,.0002,2.751, .0067, .0070
Fe2404,240.488 {140},In2306,ppm, .0353,.0036,10.25, .0327, .0378
K_7664,766.490 { 44},Y_3710,ppm, 215.2,.1126,.0523, 215.3, 215.2
K_7698,769.896 { 44},Y_3710,ppm, 213.9,.0618,.0289, 213.9, 213.8
Li6707,670.784 { 50},Y_3710,ppm, .0488,.0002,.3406, .0490, .0487
Mg2790,279.079 {121},Y_3710,ppm, 3.569,.0126,.3527, 3.578, 3.560
Mn2576,257.610 {131},Y_3600,ppm, .0259,.0001,.4575, .0260, .0258
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0263,.0001,.2268, .0263, .0262
Mo2020,202.030 {467},Y_2243,ppm, 1.320,.0022,.1644, 1.318, 1.321
Na5895,589.592 { 57},Y_3710,ppm, 418.3,1.120,.2678, 419.1, 417.5
Na8183,818.326 { 41},Y_3710,ppm, 423.8,.2106,.0497, 423.6, 423.9
Ni2316,231.604 {445},In2306,ppm, .2855,.0010,.3426, .2862, .2848
P_1782,178.284 {489},In2306,ppm, 5.834,.0001,.0020, 5.834, 5.834
Pb2203,220.353 {453},In2306,ppm, -.0002,.0004,184.7, -.0005, .0001
S_1820,182.034 {485},Y_2243,ppm, -101900.,651.4,.6394, -101400., -102300.
Sb2068,206.833 {463},Y_2243,ppm, .0029,.0019,64.68, .0042, .0016
Se1960,196.090 {472},Y_2243,ppm, .0032,.0014,42.22, .0023, .0042
Si2516,251.611 {134},Y_3710,ppm, 8.098,.0449,.5539, 8.130, 8.066
Sn1899,189.989 {477},In2306,ppm, .0000,.0002,1187., .0001, -.0001
Sr4215,421.552 { 80},Y_3710,ppm, 1.314,.0033,.2489, 1.311, 1.316
Ti3349,334.904 {101},Y_3600,ppm, .0037,.0001,3.476, .0037, .0036
Tl1908,190.856 {477},In2306,ppm, .0011,.0003,23.77, .0012, .0009
V_2924,292.402 {115},Y_3600,ppm, .0022,.0002,7.169, .0021, .0024
Zn2062,206.200 {463},In2306,ppm, .3172,.0017,.5293, .3184, .3161

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 808.03,3.0978,.38337,805.84,810.22
In2306,230.606 {446},Cts/S, 11370.,38.212,.33607,11397.,11343.
Y_2243,224.306 {450},Cts/S, 21381.,130.04,.60819,21473.,21289.
Y_3600,360.073 { 94},Cts/S, 169270.,291.25,.17207,169470.,169060.
Y_3710,371.030 { 91},Cts/S, 46152.,359.07,.77802,45898.,46406.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:45:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2596,.0009,.3645, .2602, .2589
Al3082,308.215 {109},In2306,ppm, 2.381,.0179,.7518, 2.394, 2.368
As1890,189.042 {478},Y_2243,ppm, .5002,.0003,.0542, .5004, .5000
B_2496,249.678 {135},Y_3710,ppm, .4811,.0020,.4191, .4825, .4797
Ba4554,455.403 { 74},Y_3710,ppm, .4762,.0002,.0505, .4761, .4764
Be3130,313.042 {108},Y_3710,ppm, .4862,.0000,.0009, .4862, .4862
Ca3158,315.887 {107},In2306,ppm, 12.71,.0522,.4106, 12.75, 12.68
Ca3181,318.128 {106},In2306,ppm, 12.02,.0120,.0997, 12.01, 12.03
Cd2288,228.802 {447},Y_2243,ppm, .4909,.0018,.3567, .4922, .4897
Co2286,228.616 {447},In2306,ppm, .4646,.0034,.7389, .4671, .4622
Cr2677,267.716 {126},Y_3600,ppm, .4909,.0022,.4512, .4925, .4893
Cu3247,324.754 {104},Y_3600,ppm, .4926,.0002,.0430, .4927, .4924
Fe2404,240.488 {140},In2306,ppm, 2.421,.0027,.1105, 2.423, 2.419
K_7664,766.490 { 44},Y_3710,ppm, 12.21,.0122,.0999, 12.20, 12.22
K_7698,769.896 { 44},Y_3710,ppm, 12.31,.0023,.0183, 12.31, 12.31
Li6707,670.784 { 50},Y_3710,ppm, .4896,.0026,.5295, .4878, .4915
Mg2790,279.079 {121},Y_3710,ppm, 4.849,.0113,.2328, 4.841, 4.857
Mn2576,257.610 {131},Y_3600,ppm, .5177,.0024,.4645, .5160, .5194
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5232,.0059,1.120, .5273, .5190
Mo2020,202.030 {467},Y_2243,ppm, .5445,.0001,.0226, .5444, .5446
Na5895,589.592 { 57},Y_3710,ppm, 12.36,.0237,.1916, 12.38, 12.35
Na8183,818.326 { 41},Y_3710,ppm, 11.99,.0399,.3331, 11.96, 12.02
Ni2316,231.604 {445},In2306,ppm, .4801,.0040,.8258, .4829, .4772
P_1782,178.284 {489},In2306,ppm, .4744,.0003,.0538, .4743, .4746
Pb2203,220.353 {453},In2306,ppm, .4724,.0004,.0846, .4727, .4721
S_1820,182.034 {485},Y_2243,ppm, -193.7,5.354,2.764, -189.9, -197.4
Sb2068,206.833 {463},Y_2243,ppm, .5032,.0026,.5245, .5051, .5013
Se1960,196.090 {472},Y_2243,ppm, .5121,.0031,.6068, .5099, .5143
Si2516,251.611 {134},Y_3710,ppm, .9766,.0067,.6847, .9718, .9813
Sn1899,189.989 {477},In2306,ppm, .5021,.0023,.4657, .5038, .5005
Sr4215,421.552 { 80},Y_3710,ppm, .2479,.0010,.3955, .2486, .2473
Ti3349,334.904 {101},Y_3600,ppm, .4805,.0025,.5130, .4822, .4787
Tl1908,190.856 {477},In2306,ppm, .4686,.0061,1.301, .4729, .4643
V_2924,292.402 {115},Y_3600,ppm, .5002,.0004,.0757, .5005, .4999
Zn2062,206.200 {463},In2306,ppm, .4589,.0038,.8311, .4616, .4562

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 873.36,.24385,.02792,873.19,873.53
In2306,230.606 {446},Cts/S, 15640.,67.183,.42955,15593.,15688.
Y_2243,224.306 {450},Cts/S, 25599.,72.466,.28308,25548.,25650.
Y_3600,360.073 { 94},Cts/S, 202850.,120.74,.05952,202940.,202770.
Y_3710,371.030 { 91},Cts/S, 47901.,156.44,.32660,48012.,47790.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:47:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0057,.0009,16.54, .0050, .0063
Al3082,308.215 {109},In2306,ppm, .0773,.0086,11.08, .0833, .0712

```
As1890,189.042 {478},Y_2243,ppm, .0078,.0008,10.58, .0072, .0084
B_2496,249.678 {135},Y_3710,ppm, .0085,.0038,44.83, .0111, .0058
Ba4554,455.403 { 74},Y_3710,ppm, .0101,.0005,4.479, .0104, .0098
Be3130,313.042 {108},Y_3710,ppm, .0050,.0003,6.755, .0053, .0048
Ca3158,315.887 {107},In2306,ppm, .1056,.0032,3.019, .1034, .1079
Ca3181,318.128 {106},In2306,ppm, .1313,.0014,1.043, .1303, .1322
Cd2288,228.802 {447},Y_2243,ppm, .0050,.0002,3.178, .0049, .0052
Co2286,228.616 {447},In2306,ppm, .0092,.0003,3.401, .0090, .0094
Cr2677,267.716 {126},Y_3600,ppm, .0097,.0003,3.076, .0099, .0095
Cu3247,324.754 {104},Y_3600,ppm, .0140,.0000,.2955, .0140, .0140
Fe2404,240.488 {140},In2306,ppm, .0966,.0092,9.499, .1031, .0901
K_7664,766.490 { 44},Y_3710,ppm, .6619,.0335,5.064, .6856, .6382
K_7698,769.896 { 44},Y_3710,ppm, .7324,.0866,11.82, .7936, .6712
Li6707,670.784 { 50},Y_3710,ppm, .0071,.0014,19.42, .0080, .0061
Mg2790,279.079 {121},Y_3710,ppm, .0892,.0007,.8312, .0897, .0886
Mn2576,257.610 {131},Y_3600,ppm, .0106,.0002,1.607, .0107, .0105
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0118,.0014,11.74, .0128, .0108
Mo2020,202.030 {467},Y_2243,ppm, .0126,.0007,5.589, .0121, .0131
Na5895,589.592 { 57},Y_3710,ppm, .7017,.0435,6.195, .7324, .6709
Na8183,818.326 { 41},Y_3710,ppm, .6556,.2010,30.67, .7977, .5134
Ni2316,231.604 {445},In2306,ppm, .0096,.0001,1.255, .0096, .0097
P_1782,178.284 {489},In2306,ppm, -.0013,.0004,32.66, -.0016, -.0010
Pb2203,220.353 {453},In2306,ppm, .0098,.0005,5.039, .0094, .0101
S_1820,182.034 {485},Y_2243,ppm, -6.838,.2577,3.768, -7.020, -6.656
Sb2068,206.833 {463},Y_2243,ppm, .0119,.0005,4.409, .0115, .0123
Se1960,196.090 {472},Y_2243,ppm, .0094,.0003,2.718, .0092, .0096
Si2516,251.611 {134},Y_3710,ppm, .0127,.0006,4.831, .0123, .0132
Sn1899,189.989 {477},In2306,ppm, .0090,.0011,12.02, .0082, .0098
Sr4215,421.552 { 80},Y_3710,ppm, .0053,.0003,4.903, .0054, .0051
Ti3349,334.904 {101},Y_3600,ppm, .0095,.0002,2.197, .0097, .0094
Tl1908,190.856 {477},In2306,ppm, .0121,.0034,28.08, .0097, .0145
V_2924,292.402 {115},Y_3600,ppm, .0107,.0002,1.547, .0106, .0108
Zn2062,206.200 {463},In2306,ppm, .0093,.0002,2.468, .0091, .0094

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 891.86,30.946,3.4698,869.98,913.74
In2306,230.606 {446},Cts/S, 16876.,37.699,.22339,16903.,16850.
Y_2243,224.306 {450},Cts/S, 26122.,75.139,.28765,26175.,26069.
Y_3600,360.073 { 94},Cts/S, 209420.,943.47,.45053,208750.,210080.
Y_3710,371.030 { 91},Cts/S, 48109.,2041.3,4.2431,46665.,49552.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:50:02
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0004,85450., .0003, -.0003
Al3082,308.215 {109},In2306,ppm, -.0030,.0093,310.3, -.0096, .0036
As1890,189.042 {478},Y_2243,ppm, -.0017,.0007,44.09, -.0011, -.0022
B_2496,249.678 {135},Y_3710,ppm, -.0003,.0017,505.0, -.0016, .0009
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,494.2, -.0001, .0000
```

Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,27.39, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, .0080,.0046,57.58, .0113, .0048
Ca3181,318.128 {106},In2306,ppm, .0278,.0117,42.04, .0195, .0361
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,85.03, .0000, -.0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,86.26, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0001,.0001,129.1, .0000, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0025,.0003,10.94, .0027, .0023
Fe2404,240.488 {140},In2306,ppm, -.0031,.0021,67.13, -.0016, -.0045
K_7664,766.490 { 44},Y_3710,ppm, .0341,.0052,15.20, .0378, .0304
K_7698,769.896 { 44},Y_3710,ppm, .1109,.0154,13.88, .1000, .1217
Li6707,670.784 { 50},Y_3710,ppm, .0015,.0008,49.49, .0021, .0010
Mg2790,279.079 {121},Y_3710,ppm, -.0024,.0077,325.1, .0031, -.0078
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,151.3, .0000, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0001,.0006,385.4, -.0005, .0002
Mo2020,202.030 {467},Y_2243,ppm, -.0001,.0005,785.6, -.0004, .0003
Na5895,589.592 { 57},Y_3710,ppm, .0460,.0077,16.68, .0515, .0406
Na8183,818.326 { 41},Y_3710,ppm, .1349,.1949,144.5, .2727, -.0030
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,151.6, .0002, .0000
P_1782,178.284 {489},In2306,ppm, -.0021,.0004,18.32, -.0018, -.0024
Pb2203,220.353 {453},In2306,ppm, -.0004,.0004,96.10, -.0007, -.0001
S_1820,182.034 {485},Y_2243,ppm, -4.651,.4867,10.46, -4.995, -4.307
Sb2068,206.833 {463},Y_2243,ppm, .0002,.0011,509.4, .0010, -.0006
Se1960,196.090 {472},Y_2243,ppm, -.0015,.0003,17.22, -.0017, -.0013
Si2516,251.611 {134},Y_3710,ppm, -.0016,.0052,328.9, .0021, -.0052
Sn1899,189.989 {477},In2306,ppm, -.0003,.0011,325.3, -.0011, .0004
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,24.38, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0000,15.23, -.0003, -.0004
Tl1908,190.856 {477},In2306,ppm, -.0002,.0001,68.63, -.0001, -.0002
V_2924,292.402 {115},Y_3600,ppm, .0003,.0001,19.04, .0004, .0003
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,49.29, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 909.02,6.5092,.71607,904.41,913.62
In2306,230.606 {446},Cts/S, 16960.,85.946,.50677,17020.,16899.
Y_2243,224.306 {450},Cts/S, 26020.,176.41,.67797,26145.,25895.
Y_3600,360.073 { 94},Cts/S, 210460.,221.78,.10538,210300.,210620.
Y_3710,371.030 { 91},Cts/S, 49381.,389.42,.78859,49106.,49657.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63154-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:52:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0016,.0004,23.12, -.0018, -.0013
Al3082,308.215 {109},In2306,ppm, .5563,.0159,2.854, .5451, .5676
As1890,189.042 {478},Y_2243,ppm, -.0001,.0002,127.6, .0000, -.0003
B_2496,249.678 {135},Y_3710,ppm, .1073,.0027,2.525, .1054, .1092
Ba4554,455.403 { 74},Y_3710,ppm, .0557,.0004,.7472, .0560, .0554
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,494.4, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 126.7,.5257,.4149, 126.3, 127.1
Ca3181,318.128 {106},In2306,ppm, 118.1,1.111,.9406, 117.3, 118.9

Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,69.67, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0005,.0002,51.43, .0006, .0003
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0004,40.60, .0013, .0007
Cu3247,324.754 {104},Y_3600,ppm, .0037,.0002,4.772, .0038, .0036
Fe2404,240.488 {140},In2306,ppm, .1164,.0033,2.862, .1141, .1188
K_7664,766.490 { 44},Y_3710,ppm, 14.01,.0077,.0549, 14.01, 14.00
K_7698,769.896 { 44},Y_3710,ppm, 14.22,.0894,.6286, 14.28, 14.15
Li6707,670.784 { 50},Y_3710,ppm, .0114,.0016,13.71, .0103, .0125
Mg2790,279.079 {121},Y_3710,ppm, 35.54,.2393,.6735, 35.71, 35.37
Mn2576,257.610 {131},Y_3600,ppm, .0997,.0002,.1587, .0998, .0996
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0965,.0014,1.433, .0975, .0955
Mo2020,202.030 {467},Y_2243,ppm, .0080,.0006,7.855, .0084, .0076
Na5895,589.592 { 57},Y_3710,ppm, 738.4,13.36,1.809, 728.9, 747.8
Na8183,818.326 { 41},Y_3710,ppm, 767.2,.5955,.0776, 767.7, 766.8
Ni2316,231.604 {445},In2306,ppm, .0180,.0000,.2188, .0180, .0179
P_1782,178.284 {489},In2306,ppm, .0762,.0004,.5587, .0765, .0759
Pb2203,220.353 {453},In2306,ppm, .0032,.0007,22.79, .0037, .0027
S_1820,182.034 {485},Y_2243,ppm, -43290.,180.1,.4161, -43420., -43160.
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0009,109.3, -.0002, -.0015
Se1960,196.090 {472},Y_2243,ppm, .0004,.0014,385.5, -.0006, .0014
Si2516,251.611 {134},Y_3710,ppm, 4.240,.0293,.6911, 4.261, 4.220
Sn1899,189.989 {477},In2306,ppm, -.0017,.0005,30.46, -.0021, -.0013
Sr4215,421.552 { 80},Y_3710,ppm, .2902,.0018,.6323, .2915, .2889
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0001,7.395, .0012, .0011
Tl1908,190.856 {477},In2306,ppm, -.0017,.0011,64.07, -.0024, -.0009
V_2924,292.402 {115},Y_3600,ppm, .0011,.0001,10.60, .0010, .0012
Zn2062,206.200 {463},In2306,ppm, .0169,.0001,.6135, .0170, .0169

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 846.21,3.3976,.40151,848.61,843.80
In2306,230.606 {446},Cts/S, 12137.,16.348,.13470,12126.,12149.
Y_2243,224.306 {450},Cts/S, 22524.,38.140,.16933,22497.,22551.
Y_3600,360.073 { 94},Cts/S, 174270.,114.52,.06572,174190.,174350.
Y_3710,371.030 { 91},Cts/S, 47617.,241.80,.50781,47446.,47788.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63154-c-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:54:57
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0006,.0005,85.80, -.0002, -.0009
Al3082,308.215 {109},In2306,ppm, .5586,.0065,1.170, .5632, .5540
As1890,189.042 {478},Y_2243,ppm, -.0009,.0011,122.1, -.0001, -.0017
B_2496,249.678 {135},Y_3710,ppm, .1053,.0021,2.025, .1038, .1068
Ba4554,455.403 { 74},Y_3710,ppm, .0553,.0002,.4506, .0554, .0551
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,59.33, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 127.2,.4274,.3359, 126.9, 127.6
Ca3181,318.128 {106},In2306,ppm, 118.0,.1685,.1427, 117.9, 118.1
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,17.66, .0002, .0002
Co2286,228.616 {447},In2306,ppm, .0006,.0000,7.442, .0007, .0006
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0003,31.37, .0012, .0008

```
Cu3247,324.754 {104},Y_3600,ppm, .0033,.0000,.3147, .0033, .0033
Fe2404,240.488 {140},In2306,ppm, .1122,.0004,.3210, .1125, .1120
K_7664,766.490 { 44},Y_3710,ppm, 14.03,.1397,.9954, 14.13, 13.93
K_7698,769.896 { 44},Y_3710,ppm, 14.20,.1091,.7684, 14.28, 14.13
Li6707,670.784 { 50},Y_3710,ppm, .0149,.0011,7.341, .0156, .0141
Mg2790,279.079 {121},Y_3710,ppm, 35.44,.0344,.0969, 35.47, 35.42
Mn2576,257.610 {131},Y_3600,ppm, .0994,.0008,.7562, .0999, .0989
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0958,.0007,.7084, .0963, .0953
Mo2020,202.030 {467},Y_2243,ppm, .0079,.0000,.5302, .0080, .0079
Na5895,589.592 { 57},Y_3710,ppm, 741.0,3.402,.4591, 738.6, 743.4
Na8183,818.326 { 41},Y_3710,ppm, 764.4,2.894,.3785, 766.5, 762.4
Ni2316,231.604 {445},In2306,ppm, .0174,.0002,1.222, .0176, .0173
P_1782,178.284 {489},In2306,ppm, .0768,.0012,1.568, .0776, .0759
Pb2203,220.353 {453},In2306,ppm, .0032,.0006,19.91, .0037, .0028
S_1820,182.034 {485},Y_2243,ppm, -43000.,143.3,.3332, -42900., -43100.
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0001,10.41, -.0011, -.0013
Se1960,196.090 {472},Y_2243,ppm, .0006,.0016,266.0, -.0005, .0017
Si2516,251.611 {134},Y_3710,ppm, 4.267,.0130,.3044, 4.276, 4.258
Sn1899,189.989 {477},In2306,ppm, -.0016,.0005,30.41, -.0020, -.0013
Sr4215,421.552 { 80},Y_3710,ppm, .2887,.0010,.3508, .2894, .2880
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0001,10.64, .0012, .0010
Tl1908,190.856 {477},In2306,ppm, -.0020,.0001,6.666, -.0021, -.0019
V_2924,292.402 {115},Y_3600,ppm, .0005,.0005,101.3, .0001, .0009
Zn2062,206.200 {463},In2306,ppm, .0174,.0001,.6350, .0173, .0174

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 843.20,.30353,.03600,842.99,843.42
In2306,230.606 {446},Cts/S, 12199.,28.282,.23184,12219.,12179.
Y_2243,224.306 {450},Cts/S, 22621.,60.271,.26644,22664.,22578.
Y_3600,360.073 { 94},Cts/S, 175300.,443.97,.25326,174980.,175610.
Y_3710,371.030 { 91},Cts/S, 47508.,190.85,.40172,47373.,47643.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63154-c-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 9:59:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6230,.0044,.7121, .6199, .6261
Al3082,308.215 {109},In2306,ppm, 11.15,.1714,1.537, 11.28, 11.03
As1890,189.042 {478},Y_2243,ppm, 1.169,.0121,1.039, 1.177, 1.160
B_2496,249.678 {135},Y_3710,ppm, 1.112,.0022,.1993, 1.110, 1.114
Ba4554,455.403 { 74},Y_3710,ppm, 1.083,.0100,.9241, 1.090, 1.076
Be3130,313.042 {108},Y_3710,ppm, .5207,.0036,.6919, .5233, .5182
Ca3158,315.887 {107},In2306,ppm, 141.7,2.487,1.755, 143.4, 139.9
Ca3181,318.128 {106},In2306,ppm, 129.2,2.480,1.919, 131.0, 127.5
Cd2288,228.802 {447},Y_2243,ppm, .5513,.0057,1.037, .5553, .5472
Co2286,228.616 {447},In2306,ppm, 1.058,.0105,.9875, 1.066, 1.051
Cr2677,267.716 {126},Y_3600,ppm, 1.023,.0083,.8139, 1.017, 1.029
Cu3247,324.754 {104},Y_3600,ppm, 1.076,.0027,.2515, 1.074, 1.078
Fe2404,240.488 {140},In2306,ppm, 10.47,.2275,2.172, 10.63, 10.31
K_7664,766.490 { 44},Y_3710,ppm, 24.72,.1607,.6499, 24.84, 24.61
```

```
K_7698,769.896 { 44},Y_3710,ppm, 25.02,.1199,.4793, 25.10, 24.93
Li6707,670.784 { 50},Y_3710,ppm, .5475,.0020,.3694, .5489, .5460
Mg2790,279.079 {121},Y_3710,ppm, 45.64,.3120,.6836, 45.86, 45.42
Mn2576,257.610 {131},Y_3600,ppm, 1.218,.0197,1.615, 1.204, 1.232
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.202,.0097,.8038, 1.209, 1.195
Mo2020,202.030 {467},Y_2243,ppm, 1.196,.0118,.9858, 1.204, 1.187
Na5895,589.592 { 57},Y_3710,ppm, 754.1,4.686,.6214, 757.5, 750.8
Na8183,818.326 { 41},Y_3710,ppm, 784.5,8.338,1.063, 790.4, 778.6
Ni2316,231.604 {445},In2306,ppm, 1.110,.0120,1.079, 1.119, 1.102
P_1782,178.284 {489},In2306,ppm, .0757,.0018,2.358, .0770, .0745
Pb2203,220.353 {453},In2306,ppm, 1.028,.0098,.9536, 1.035, 1.021
S_1820,182.034 {485},Y_2243,ppm, -43810.,386.9,.8830, -44080., -43540.
Sb2068,206.833 {463},Y_2243,ppm, 1.112,.0115,1.031, 1.120, 1.104
Se1960,196.090 {472},Y_2243,ppm, 1.217,.0092,.7548, 1.223, 1.210
Si2516,251.611 {134},Y_3710,ppm, 5.062,.0232,.4579, 5.078, 5.046
Sn1899,189.989 {477},In2306,ppm, 1.169,.0133,1.141, 1.178, 1.159
Sr4215,421.552 { 80},Y_3710,ppm, .8355,.0047,.5679, .8388, .8321
Ti3349,334.904 {101},Y_3600,ppm, 1.017,.0026,.2593, 1.015, 1.019
Tl1908,190.856 {477},In2306,ppm, .9185,.0153,1.670, .9293, .9076
V_2924,292.402 {115},Y_3600,ppm, 1.087,.0068,.6297, 1.083, 1.092
Zn2062,206.200 {463},In2306,ppm, 1.124,.0085,.7575, 1.130, 1.118

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 837.42,12.345,1.4742,828.69,846.15
In2306,230.606 {446},Cts/S, 12034.,89.171,.74097,11971.,12097.
Y_2243,224.306 {450},Cts/S, 22281.,160.60,.72081,22168.,22395.
Y_3600,360.073 { 94},Cts/S, 174970.,921.19,.52650,175620.,174310.
Y_3710,371.030 { 91},Cts/S, 47553.,278.20,.58503,47356.,47749.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63154-c-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:05:20
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6320,.0170,2.696, .6200, .6440
Al3082,308.215 {109},In2306,ppm, 11.33,.0147,.1300, 11.34, 11.32
As1890,189.042 {478},Y_2243,ppm, 1.164,.0069,.5941, 1.169, 1.160
B_2496,249.678 {135},Y_3710,ppm, 1.138,.0105,.9237, 1.145, 1.130
Ba4554,455.403 { 74},Y_3710,ppm, 1.114,.0052,.4680, 1.118, 1.110
Be3130,313.042 {108},Y_3710,ppm, .5293,.0039,.7313, .5320, .5265
Ca3158,315.887 {107},In2306,ppm, 147.6,.5614,.3802, 148.0, 147.2
Ca3181,318.128 {106},In2306,ppm, 133.2,.3739,.2808, 133.4, 132.9
Cd2288,228.802 {447},Y_2243,ppm, .5501,.0038,.6852, .5528, .5475
Co2286,228.616 {447},In2306,ppm, 1.046,.0073,.7008, 1.051, 1.040
Cr2677,267.716 {126},Y_3600,ppm, 1.004,.0327,3.258, .9810, 1.027
Cu3247,324.754 {104},Y_3600,ppm, 1.067,.0348,3.260, 1.043, 1.092
Fe2404,240.488 {140},In2306,ppm, 10.70,.0276,.2582, 10.72, 10.68
K_7664,766.490 { 44},Y_3710,ppm, 25.30,.1417,.5601, 25.40, 25.20
K_7698,769.896 { 44},Y_3710,ppm, 25.60,.0571,.2229, 25.64, 25.56
Li6707,670.784 { 50},Y_3710,ppm, .5600,.0019,.3436, .5613, .5586
Mg2790,279.079 {121},Y_3710,ppm, 46.74,.3529,.7550, 46.99, 46.49
```

Mn2576,257.610 {131},Y_3600,ppm, 1.211,.0367,3.031, 1.185, 1.237
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.238,.0125,1.006, 1.247, 1.230
Mo2020,202.030 {467},Y_2243,ppm, 1.215,.0101,.8280, 1.222, 1.208
Na5895,589.592 { 57},Y_3710,ppm, 786.1,2.844,.3618, 788.1, 784.1
Na8183,818.326 { 41},Y_3710,ppm, 810.6,3.918,.4834, 813.3, 807.8
Ni2316,231.604 {445},In2306,ppm, 1.101,.0056,.5041, 1.105, 1.097
P_1782,178.284 {489},In2306,ppm, .0775,.0001,.1485, .0775, .0776
Pb2203,220.353 {453},In2306,ppm, 1.021,.0049,.4820, 1.025, 1.018
S_1820,182.034 {485},Y_2243,ppm, -44360.,117.8,.2656, -44440., -44280.
Sb2068,206.833 {463},Y_2243,ppm, 1.110,.0062,.5614, 1.115, 1.106
Se1960,196.090 {472},Y_2243,ppm, 1.219,.0067,.5508, 1.223, 1.214
Si2516,251.611 {134},Y_3710,ppm, 5.194,.0484,.9311, 5.228, 5.160
Sn1899,189.989 {477},In2306,ppm, 1.185,.0103,.8711, 1.192, 1.178
Sr4215,421.552 { 80},Y_3710,ppm, .8537,.0050,.5803, .8572, .8502
Ti3349,334.904 {101},Y_3600,ppm, .9929,.0364,3.669, .9671, 1.019
Tl1908,190.856 {477},In2306,ppm, .8851,.0238,2.685, .9019, .8683
V_2924,292.402 {115},Y_3600,ppm, 1.075,.0382,3.548, 1.048, 1.102
Zn2062,206.200 {463},In2306,ppm, 1.115,.0078,.6978, 1.121, 1.110

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 826.18,4.2999,.52046,823.14,829.22
In2306,230.606 {446},Cts/S, 12113.,1.8481,.01526,12111.,12114.
Y_2243,224.306 {450},Cts/S, 22226.,18.931,.08518,22239.,22213.
Y_3600,360.073 { 94},Cts/S, 177780.,4581.6,2.5771,181020.,174540.
Y_3710,371.030 { 91},Cts/S, 46630.,489.69,1.0502,46283.,46976.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63180-c-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:10:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0005,2214., .0004, -.0004
Al3082,308.215 {109},In2306,ppm, .5770,.0147,2.550, .5874, .5666
As1890,189.042 {478},Y_2243,ppm, -.0004,.0006,169.0, .0001, -.0008
B_2496,249.678 {135},Y_3710,ppm, .1117,.0007,.6084, .1113, .1122
Ba4554,455.403 { 74},Y_3710,ppm, .0581,.0000,.0009, .0581, .0581
Be3130,313.042 {108},Y_3710,ppm, .0000,.0000,420.9, .0000, .0000
Ca3158,315.887 {107},In2306,ppm, 137.2,.9596,.6993, 136.6, 137.9
Ca3181,318.128 {106},In2306,ppm, 122.9,.3123,.2542, 122.6, 123.1
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,1.559, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0006,.0001,17.29, .0007, .0006
Cr2677,267.716 {126},Y_3600,ppm, .0009,.0001,7.169, .0010, .0009
Cu3247,324.754 {104},Y_3600,ppm, .0053,.0001,1.790, .0052, .0053
Fe2404,240.488 {140},In2306,ppm, .1107,.0016,1.415, .1096, .1118
K_7664,766.490 { 44},Y_3710,ppm, 22.63,.0412,.1821, 22.60, 22.66
K_7698,769.896 { 44},Y_3710,ppm, 23.00,.0858,.3731, 22.94, 23.06
Li6707,670.784 { 50},Y_3710,ppm, .0163,.0011,6.721, .0155, .0171
Mg2790,279.079 {121},Y_3710,ppm, 72.33,.0594,.0821, 72.28, 72.37
Mn2576,257.610 {131},Y_3600,ppm, .1611,.0007,.4317, .1606, .1616
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1546,.0003,.1877, .1548, .1544
Mo2020,202.030 {467},Y_2243,ppm, .0070,.0001,1.391, .0071, .0070

```
Na5895,589.592 { 57},Y_3710,ppm, 1273.,3.615,.2841, 1270., 1275.
Na8183,818.326 { 41},Y_3710,ppm, 1369.,3.853,.2814, 1367., 1372.
Ni2316,231.604 {445},In2306,ppm, .0207,.0003,1.609, .0209, .0204
P_1782,178.284 {489},In2306,ppm, .0716,.0022,3.113, .0732, .0701
Pb2203,220.353 {453},In2306,ppm, .0033,.0004,12.97, .0036, .0030
S_1820,182.034 {485},Y_2243,ppm, -87470.,1180.,1.349, -88310., -86640.
Sb2068,206.833 {463},Y_2243,ppm, -.0010,.0003,27.15, -.0008, -.0012
Se1960,196.090 {472},Y_2243,ppm, -.0006,.0036,557.9, .0019, -.0032
Si2516,251.611 {134},Y_3710,ppm, 3.571,.0234,.6548, 3.554, 3.587
Sn1899,189.989 {477},In2306,ppm, -.0018,.0004,20.76, -.0015, -.0021
Sr4215,421.552 { 80},Y_3710,ppm, .3100,.0011,.3552, .3092, .3108
Ti3349,334.904 {101},Y_3600,ppm, .0009,.0000,4.124, .0009, .0010
Tl1908,190.856 {477},In2306,ppm, -.0004,.0015,396.9, .0007, -.0014
V_2924,292.402 {115},Y_3600,ppm, -.0001,.0003,474.2, .0002, -.0003
Zn2062,206.200 {463},In2306,ppm, .0212,.0005,2.173, .0215, .0209

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 819.16,1.8871,.23037,820.50,817.83
In2306,230.606 {446},Cts/S, 11590.,61.364,.52946,11547.,11633.
Y_2243,224.306 {450},Cts/S, 21430.,74.815,.34911,21377.,21483.
Y_3600,360.073 { 94},Cts/S, 166060.,902.48,.54348,166690.,165420.
Y_3710,371.030 { 91},Cts/S, 46438.,69.710,.15011,46488.,46389.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63148-f-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:14:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0012,.0002,18.82, .0010, .0013
Al3082,308.215 {109},In2306,ppm, -.0054,.0070,130.1, -.0004, -.0103
As1890,189.042 {478},Y_2243,ppm, .0059,.0006,9.408, .0063, .0055
B_2496,249.678 {135},Y_3710,ppm, .1717,.0015,.8648, .1728, .1707
Ba4554,455.403 { 74},Y_3710,ppm, .5650,.0005,.0919, .5654, .5646
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,7.402, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 82.02,.1297,.1582, 81.92, 82.11
Ca3181,318.128 {106},In2306,ppm, 72.57,.4719,.6502, 72.24, 72.91
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,3.600, .0002, .0002
Co2286,228.616 {447},In2306,ppm, -.0008,.0000,1.639, -.0008, -.0008
Cr2677,267.716 {126},Y_3600,ppm, .0009,.0003,34.11, .0007, .0011
Cu3247,324.754 {104},Y_3600,ppm, .0926,.0002,.2141, .0927, .0924
Fe2404,240.488 {140},In2306,ppm, .0680,.0013,1.849, .0689, .0671
K_7664,766.490 { 44},Y_3710,ppm, 18.44,.0444,.2407, 18.41, 18.47
K_7698,769.896 { 44},Y_3710,ppm, 18.79,.0570,.3032, 18.75, 18.83
Li6707,670.784 { 50},Y_3710,ppm, .0291,.0000,.0752, .0291, .0291
Mg2790,279.079 {121},Y_3710,ppm, 6.671,.0019,.0291, 6.673, 6.670
Mn2576,257.610 {131},Y_3600,ppm, .0196,.0001,.3398, .0196, .0196
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0187,.0002,1.042, .0188, .0185
Mo2020,202.030 {467},Y_2243,ppm, .4939,.0022,.4356, .4923, .4954
Na5895,589.592 { 57},Y_3710,ppm, 336.1,4.782,1.422, 332.8, 339.5
Na8183,818.326 { 41},Y_3710,ppm, 331.8,.8623,.2599, 332.4, 331.2
Ni2316,231.604 {445},In2306,ppm, -.0005,.0000,5.013, -.0005, -.0005
```

P_1782,178.284 {489},In2306,ppm, 1.121,.0013,.1132, 1.120, 1.121
Pb2203,220.353 {453},In2306,ppm, .0026,.0004,15.72, .0023, .0029
S_1820,182.034 {485},Y_2243,ppm, -1278.,7.188,.5626, -1272., -1283.
Sb2068,206.833 {463},Y_2243,ppm, -.0011,.0003,23.97, -.0009, -.0013
Se1960,196.090 {472},Y_2243,ppm, .0001,.0011,1197., -.0007, .0008
Si2516,251.611 {134},Y_3710,ppm, 36.93,.2480,.6715, 37.10, 36.75
Sn1899,189.989 {477},In2306,ppm, -.0016,.0004,26.51, -.0019, -.0013
Sr4215,421.552 { 80},Y_3710,ppm, .6189,.0013,.2071, .6198, .6180
Ti3349,334.904 {101},Y_3600,ppm, .0003,.0002,66.91, .0004, .0002
Tl1908,190.856 {477},In2306,ppm, -.0019,.0006,29.15, -.0023, -.0015
V_2924,292.402 {115},Y_3600,ppm, -.0005,.0002,41.67, -.0004, -.0006
Zn2062,206.200 {463},In2306,ppm, .0049,.0001,1.832, .0048, .0049

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 861.56,3.7244,.43229,864.19,858.92
In2306,230.606 {446},Cts/S, 13378.,27.302,.20409,13397.,13358.
Y_2243,224.306 {450},Cts/S, 22993.,75.869,.32997,23046.,22939.
Y_3600,360.073 { 94},Cts/S, 181070.,760.62,.42006,181610.,180540.
Y_3710,371.030 { 91},Cts/S, 48576.,364.82,.75102,48318.,48834.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63148-f-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:16:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0008,.0003,42.65, .0006, .0010
Al3082,308.215 {109},In2306,ppm, 1.678,.0026,.1571, 1.680, 1.677
As1890,189.042 {478},Y_2243,ppm, .0002,.0007,268.7, -.0002, .0007
B_2496,249.678 {135},Y_3710,ppm, .0714,.0001,.1551, .0715, .0713
Ba4554,455.403 { 74},Y_3710,ppm, .0757,.0007,.9193, .0762, .0752
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,9.044, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, 24.14,.0506,.2094, 24.18, 24.11
Ca3181,318.128 {106},In2306,ppm, 21.31,.0774,.3630, 21.25, 21.36
Cd2288,228.802 {447},Y_2243,ppm, .0006,.0000,6.856, .0005, .0006
Co2286,228.616 {447},In2306,ppm, .0005,.0000,8.625, .0005, .0005
Cr2677,267.716 {126},Y_3600,ppm, .0019,.0000,2.148, .0019, .0019
Cu3247,324.754 {104},Y_3600,ppm, .0113,.0000,.1996, .0113, .0113
Fe2404,240.488 {140},In2306,ppm, 1.894,.0015,.0807, 1.893, 1.895
K_7664,766.490 { 44},Y_3710,ppm, .3430,.0033,.9721, .3454, .3407
K_7698,769.896 { 44},Y_3710,ppm, .4351,.0692,15.90, .3862, .4840
Li6707,670.784 { 50},Y_3710,ppm, .0053,.0005,8.672, .0050, .0056
Mg2790,279.079 {121},Y_3710,ppm, 1.769,.0157,.8855, 1.758, 1.780
Mn2576,257.610 {131},Y_3600,ppm, .0135,.0001,.9026, .0135, .0134
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0139,.0004,2.847, .0137, .0142
Mo2020,202.030 {467},Y_2243,ppm, .0017,.0004,26.37, .0014, .0020
Na5895,589.592 { 57},Y_3710,ppm, 1.648,.0143,.8654, 1.658, 1.638
Na8183,818.326 { 41},Y_3710,ppm, 1.369,.0264,1.931, 1.388, 1.350
Ni2316,231.604 {445},In2306,ppm, .0025,.0001,5.689, .0026, .0024
P_1782,178.284 {489},In2306,ppm, .3976,.0049,1.229, .4010, .3941
Pb2203,220.353 {453},In2306,ppm, .0220,.0006,2.884, .0225, .0216
S_1820,182.034 {485},Y_2243,ppm, -71.66,1.219,1.701, -72.52, -70.80

Sb2068,206.833 {463},Y_2243,ppm, -.0019,.0009,45.72, -.0013, -.0025
Se1960,196.090 {472},Y_2243,ppm, -.0005,.0006,109.3, -.0009, -.0001
Si2516,251.611 {134},Y_3710,ppm, 1.558,.0052,.3354, 1.555, 1.562
Sn1899,189.989 {477},In2306,ppm, -.0004,.0012,285.7, .0004, -.0012
Sr4215,421.552 { 80},Y_3710,ppm, .0320,.0003,.8042, .0319, .0322
Ti3349,334.904 {101},Y_3600,ppm, .0019,.0002,8.068, .0018, .0020
Tl1908,190.856 {477},In2306,ppm, .0007,.0007,103.8, .0002, .0012
V_2924,292.402 {115},Y_3600,ppm, .0030,.0002,5.131, .0031, .0029
Zn2062,206.200 {463},In2306,ppm, .4493,.0061,1.351, .4536, .4450

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 913.14,2.1931,.24017,914.69,911.59
In2306,230.606 {446},Cts/S, 16781.,146.24,.87147,16678.,16884.
Y_2243,224.306 {450},Cts/S, 25622.,257.51,1.0050,25440.,25804.
Y_3600,360.073 { 94},Cts/S, 204460.,31.014,.01517,204440.,204480.
Y_3710,371.030 { 91},Cts/S, 50058.,391.68,.78244,50335.,49781.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63161-f-2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:19:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0029,.0009,31.12, -.0036, -.0023
Al3082,308.215 {109},In2306,ppm, 4.303,.0655,1.522, 4.256, 4.349
As1890,189.042 {478},Y_2243,ppm, -.0144,.0010,6.858, -.0137, -.0151
B_2496,249.678 {135},Y_3710,ppm, .2666,.0016,.5972, .2655, .2677
Ba4554,455.403 { 74},Y_3710,ppm, 2.560,.0100,.3906, 2.567, 2.552
Be3130,313.042 {108},Y_3710,ppm, .0006,.0001,13.97, .0006, .0005
Ca3158,315.887 {107},In2306,ppm, 245.7,.4136,.1683, 246.0, 245.4
Ca3181,318.128 {106},In2306,ppm, 215.4,.6018,.2794, 215.0, 215.9
Cd2288,228.802 {447},Y_2243,ppm, .0012,.0001,11.03, .0013, .0011
Co2286,228.616 {447},In2306,ppm, .0306,.0001,.4744, .0305, .0307
Cr2677,267.716 {126},Y_3600,ppm, 2.328,.0068,.2918, 2.333, 2.323
Cu3247,324.754 {104},Y_3600,ppm, .2035,.0012,.6052, .2026, .2043
Fe2404,240.488 {140},In2306,ppm, 348.5,.8157,.2340, 347.9, 349.1
K_7664,766.490 { 44},Y_3710,ppm, 15.48,.1166,.7534, 15.40, 15.57
K_7698,769.896 { 44},Y_3710,ppm, 15.81,.1033,.6535, 15.74, 15.88
Li6707,670.784 { 50},Y_3710,ppm, .0707,.0002,.3231, .0705, .0708
Mg2790,279.079 {121},Y_3710,ppm, 14.46,.0805,.5563, 14.40, 14.52
Mn2576,257.610 {131},Y_3600,ppm, 3.954,.0061,.1539, 3.958, 3.950
Mn2576-2,257.610 {131}2,Y_3710,ppm, 3.822,.0009,.0238, 3.822, 3.821
Mo2020,202.030 {467},Y_2243,ppm, .0725,.0004,.6187, .0722, .0728
Na5895,589.592 { 57},Y_3710,ppm, 62.53,.2098,.3355, 62.39, 62.68
Na8183,818.326 { 41},Y_3710,ppm, 60.71,.2826,.4655, 60.51, 60.91
Ni2316,231.604 {445},In2306,ppm, 1.374,.0048,.3517, 1.377, 1.371
P_1782,178.284 {489},In2306,ppm, 17.18,.0481,.2797, 17.22, 17.15
Pb2203,220.353 {453},In2306,ppm, .0107,.0004,3.586, .0110, .0105
S_1820,182.034 {485},Y_2243,ppm, -3818.,9.742,.2552, -3825., -3811.
Sb2068,206.833 {463},Y_2243,ppm, -.0065,.0022,33.82, -.0080, -.0049
Se1960,196.090 {472},Y_2243,ppm, .0030,.0017,54.72, .0042, .0019
Si2516,251.611 {134},Y_3710,ppm, 18.60,.0401,.2158, 18.57, 18.63

```
Sn1899,189.989 {477},In2306,ppm, .0199,.0006,2.872, .0195, .0203
Sr4215,421.552 { 80},Y_3710,ppm, 1.365,.0022,.1591, 1.363, 1.366
Ti3349,334.904 {101},Y_3600,ppm, .0935,.0003,.3742, .0932, .0937
Tl1908,190.856 {477},In2306,ppm, -.0054,.0004,7.597, -.0051, -.0057
V_2924,292.402 {115},Y_3600,ppm, .0803,.0002,.2508, .0805, .0802
Zn2062,206.200 {463},In2306,ppm, .5663,.0003,.0571, .5665, .5660

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 861.50,2.5545,.29652,859.69,863.31
In2306,230.606 {446},Cts/S, 13634.,5.6152,.04119,13630.,13638.
Y_2243,224.306 {450},Cts/S, 22895.,34.977,.15277,22870.,22920.
Y_3600,360.073 { 94},Cts/S, 184450.,130.58,.07080,184360.,184540.
Y_3710,371.030 { 91},Cts/S, 49447.,35.647,.07209,49472.,49421.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-1-d
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:21:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0008,.0009,116.8, .0001, .0014
Al3082,308.215 {109},In2306,ppm, .0543,.0048,8.865, .0509, .0577
As1890,189.042 {478},Y_2243,ppm, .0001,.0005,409.2, .0005, -.0002
B_2496,249.678 {135},Y_3710,ppm, .1679,.0001,.0435, .1679, .1678
Ba4554,455.403 { 74},Y_3710,ppm, .0989,.0002,.1617, .0988, .0990
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,164.0, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 85.80,.3097,.3609, 85.58, 86.02
Ca3181,318.128 {106},In2306,ppm, 75.09,.3373,.4492, 74.85, 75.33
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,5.209, .0001, .0001
Co2286,228.616 {447},In2306,ppm, -.0001,.0000,2.473, -.0001, -.0001
Cr2677,267.716 {126},Y_3600,ppm, .0006,.0003,43.62, .0004, .0008
Cu3247,324.754 {104},Y_3600,ppm, .0051,.0004,8.804, .0047, .0054
Fe2404,240.488 {140},In2306,ppm, .0334,.0069,20.72, .0383, .0285
K_7664,766.490 { 44},Y_3710,ppm, 1.197,.0217,1.815, 1.182, 1.213
K_7698,769.896 { 44},Y_3710,ppm, 1.331,.0160,1.201, 1.343, 1.320
Li6707,670.784 { 50},Y_3710,ppm, .0053,.0009,16.05, .0047, .0059
Mg2790,279.079 {121},Y_3710,ppm, 8.429,.0105,.1244, 8.422, 8.436
Mn2576,257.610 {131},Y_3600,ppm, .1526,.0015,.9981, .1515, .1537
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1507,.0024,1.591, .1490, .1524
Mo2020,202.030 {467},Y_2243,ppm, .0084,.0004,4.491, .0081, .0087
Na5895,589.592 { 57},Y_3710,ppm, 72.08,.1555,.2157, 71.97, 72.19
Na8183,818.326 { 41},Y_3710,ppm, 70.61,.2609,.3695, 70.42, 70.79
Ni2316,231.604 {445},In2306,ppm, .0014,.0019,133.5, .0001, .0027
P_1782,178.284 {489},In2306,ppm, .0338,.0201,59.58, .0196, .0480
Pb2203,220.353 {453},In2306,ppm, .0004,.0004,102.0, .0007, .0001
S_1820,182.034 {485},Y_2243,ppm, -4873.,11.02,.2262, -4881., -4865.
Sb2068,206.833 {463},Y_2243,ppm, -.0011,.0000,2.405, -.0011, -.0011
Se1960,196.090 {472},Y_2243,ppm, -.0002,.0000,18.00, -.0002, -.0002
Si2516,251.611 {134},Y_3710,ppm, 8.682,.0115,.1321, 8.674, 8.690
Sn1899,189.989 {477},In2306,ppm, -.0010,.0015,145.3, .0000, -.0021
Sr4215,421.552 { 80},Y_3710,ppm, .3342,.0011,.3439, .3334, .3350
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0003,71.22, .0002, .0006
```

Tl1908,190.856 {477},In2306,ppm, -.0009,.0002,21.73, -.0008, -.0011
V_2924,292.402 {115},Y_3600,ppm, .0182,.0002,1.240, .0181, .0184
Zn2062,206.200 {463},In2306,ppm, .0044,.0006,14.46, .0040, .0049

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 896.42,1.9743,.22024,895.02,897.81
In2306,230.606 {446},Cts/S, 14783.,12.299,.08320,14774.,14792.
Y_2243,224.306 {450},Cts/S, 23652.,11.828,.05001,23643.,23660.
Y_3600,360.073 { 94},Cts/S, 193420.,902.90,.46682,194050.,192780.
Y_3710,371.030 { 91},Cts/S, 49597.,41.053,.08277,49568.,49626.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:24:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0068,.0008,11.57, .0074, .0062
Al3082,308.215 {109},In2306,ppm, 2.255,.0044,.1949, 2.252, 2.258
As1890,189.042 {478},Y_2243,ppm, .0003,.0008,316.1, .0009, -.0003
B_2496,249.678 {135},Y_3710,ppm, .1011,.0009,.8761, .1017, .1005
Ba4554,455.403 { 74},Y_3710,ppm, .0488,.0003,.6159, .0486, .0490
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,47.83, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 94.76,1.005,1.061, 95.47, 94.05
Ca3181,318.128 {106},In2306,ppm, 83.14,.4351,.5233, 83.45, 82.83
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0000,1.620, .0002, .0002
Co2286,228.616 {447},In2306,ppm, .0005,.0001,15.66, .0005, .0006
Cr2677,267.716 {126},Y_3600,ppm, .0012,.0004,29.37, .0010, .0015
Cu3247,324.754 {104},Y_3600,ppm, .0078,.0002,2.996, .0079, .0076
Fe2404,240.488 {140},In2306,ppm, .3583,.0018,.5042, .3596, .3570
K_7664,766.490 { 44},Y_3710,ppm, 17.79,.0167,.0937, 17.78, 17.80
K_7698,769.896 { 44},Y_3710,ppm, 18.20,.0712,.3914, 18.15, 18.25
Li6707,670.784 { 50},Y_3710,ppm, .0125,.0014,10.79, .0116, .0135
Mg2790,279.079 {121},Y_3710,ppm, 51.30,.1012,.1973, 51.23, 51.37
Mn2576,257.610 {131},Y_3600,ppm, .1147,.0005,.4064, .1150, .1143
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1108,.0005,.4505, .1111, .1104
Mo2020,202.030 {467},Y_2243,ppm, .0054,.0001,2.115, .0055, .0053
Na5895,589.592 { 57},Y_3710,ppm, 985.8,8.009,.8124, 980.2, 991.5
Na8183,818.326 { 41},Y_3710,ppm, 1038.,.8276,.0798, 1038., 1037.
Ni2316,231.604 {445},In2306,ppm, .0155,.0002,1.305, .0154, .0157
P_1782,178.284 {489},In2306,ppm, .0497,.0014,2.826, .0487, .0507
Pb2203,220.353 {453},In2306,ppm, .0037,.0008,21.63, .0031, .0043
S_1820,182.034 {485},Y_2243,ppm, -65700.,41.86,.0637, -65730., -65670.
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0025,276.8, .0009, -.0027
Se1960,196.090 {472},Y_2243,ppm, .0010,.0014,139.1, .0000, .0020
Si2516,251.611 {134},Y_3710,ppm, 3.576,.0100,.2793, 3.569, 3.583
Sn1899,189.989 {477},In2306,ppm, .0007,.0007,92.28, .0003, .0012
Sr4215,421.552 { 80},Y_3710,ppm, .2693,.0012,.4589, .2702, .2685
Ti3349,334.904 {101},Y_3600,ppm, .0006,.0004,66.39, .0008, .0003
Tl1908,190.856 {477},In2306,ppm, -.0002,.0001,54.65, -.0001, -.0003
V_2924,292.402 {115},Y_3600,ppm, .0005,.0001,30.71, .0004, .0006
Zn2062,206.200 {463},In2306,ppm, .0382,.0004,.9238, .0379, .0384

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 848.11,4.3972,.51847,845.00,851.22
In2306,230.606 {446},Cts/S, 11999.,26.145,.21790,12017.,11980.
Y_2243,224.306 {450},Cts/S, 21782.,13.770,.06322,21772.,21792.
Y_3600,360.073 { 94},Cts/S, 169990.,88.955,.05233,170050.,169930.
Y_3710,371.030 { 91},Cts/S, 47635.,136.66,.28689,47732.,47539.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:26:33
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2895,.0007,.2295, .2890, .2900
Al3082,308.215 {109},In2306,ppm, 2.365,.0036,.1512, 2.363, 2.368
As1890,189.042 {478},Y_2243,ppm, .5106,.0058,1.134, .5065, .5147
B_2496,249.678 {135},Y_3710,ppm, .4690,.0041,.8824, .4661, .4719
Ba4554,455.403 { 74},Y_3710,ppm, .4845,.0013,.2663, .4854, .4836
Be3130,313.042 {108},Y_3710,ppm, .4801,.0019,.3861, .4814, .4788
Ca3158,315.887 {107},In2306,ppm, 13.43,.0296,.2202, 13.45, 13.41
Ca3181,318.128 {106},In2306,ppm, 11.92,.0001,.0007, 11.92, 11.92
Cd2288,228.802 {447},Y_2243,ppm, .4961,.0054,1.085, .4923, .4999
Co2286,228.616 {447},In2306,ppm, .4502,.0040,.8938, .4474, .4531
Cr2677,267.716 {126},Y_3600,ppm, .4984,.0036,.7218, .5009, .4958
Cu3247,324.754 {104},Y_3600,ppm, .5091,.0001,.0231, .5092, .5090
Fe2404,240.488 {140},In2306,ppm, 2.416,.0038,.1553, 2.414, 2.419
K_7664,766.490 { 44},Y_3710,ppm, 11.96,.0511,.4275, 12.00, 11.92
K_7698,769.896 { 44},Y_3710,ppm, 12.15,.0082,.0674, 12.16, 12.14
Li6707,670.784 { 50},Y_3710,ppm, .4983,.0015,.2997, .4993, .4972
Mg2790,279.079 {121},Y_3710,ppm, 4.646,.0193,.4161, 4.660, 4.632
Mn2576,257.610 {131},Y_3600,ppm, .5566,.0014,.2594, .5577, .5556
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5497,.0054,.9852, .5535, .5458
Mo2020,202.030 {467},Y_2243,ppm, .6011,.0069,1.141, .5962, .6059
Na5895,589.592 { 57},Y_3710,ppm, 12.66,.0675,.5328, 12.71, 12.62
Na8183,818.326 { 41},Y_3710,ppm, 12.15,.1091,.8978, 12.22, 12.07
Ni2316,231.604 {445},In2306,ppm, .4742,.0055,1.159, .4703, .4781
P_1782,178.284 {489},In2306,ppm, .4606,.0058,1.262, .4564, .4647
Pb2203,220.353 {453},In2306,ppm, .4654,.0042,.8966, .4624, .4683
S_1820,182.034 {485},Y_2243,ppm, -189.6,2.146,1.132, -188.1, -191.1
Sb2068,206.833 {463},Y_2243,ppm, .5184,.0055,1.067, .5145, .5223
Se1960,196.090 {472},Y_2243,ppm, .5306,.0067,1.260, .5259, .5354
Si2516,251.611 {134},Y_3710,ppm, .9761,.0079,.8129, .9705, .9817
Sn1899,189.989 {477},In2306,ppm, .5321,.0075,1.417, .5268, .5374
Sr4215,421.552 { 80},Y_3710,ppm, .2519,.0005,.1869, .2522, .2515
Ti3349,334.904 {101},Y_3600,ppm, .4768,.0033,.6972, .4791, .4744
Tl1908,190.856 {477},In2306,ppm, .4455,.0033,.7384, .4431, .4478
V_2924,292.402 {115},Y_3600,ppm, .5225,.0023,.4368, .5242, .5209
Zn2062,206.200 {463},In2306,ppm, .4440,.0044,.9907, .4409, .4471

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

In2306,230.606 {146},Cts/S, 897.39,4.7170,.52564,894.06,900.73
In2306,230.606 {446},Cts/S, 15944.,98.439,.61741,16013.,15874.
Y_2243,224.306 {450},Cts/S, 24951.,186.68,.74819,25083.,24819.
Y_3600,360.073 { 94},Cts/S, 198780.,440.23,.22147,198460.,199090.
Y_3710,371.030 { 91},Cts/S, 49266.,507.53,1.0302,48907.,49624.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:28:40
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0049,.0008,16.79, .0055, .0043
Al3082,308.215 {109},In2306,ppm, .0746,.0035,4.687, .0721, .0770
As1890,189.042 {478},Y_2243,ppm, .0096,.0000,.2576, .0096, .0096
B_2496,249.678 {135},Y_3710,ppm, .0068,.0007,10.08, .0063, .0073
Ba4554,455.403 { 74},Y_3710,ppm, .0094,.0001,.8392, .0094, .0095
Be3130,313.042 {108},Y_3710,ppm, .0048,.0000,.4646, .0048, .0048
Ca3158,315.887 {107},In2306,ppm, .1208,.0108,8.935, .1284, .1131
Ca3181,318.128 {106},In2306,ppm, .1024,.0048,4.727, .0990, .1058
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0002,3.580, .0049, .0052
Co2286,228.616 {447},In2306,ppm, .0089,.0001,1.498, .0088, .0090
Cr2677,267.716 {126},Y_3600,ppm, .0099,.0001,.9355, .0100, .0098
Cu3247,324.754 {104},Y_3600,ppm, .0153,.0003,1.839, .0155, .0151
Fe2404,240.488 {140},In2306,ppm, .0955,.0046,4.778, .0923, .0987
K_7664,766.490 { 44},Y_3710,ppm, .6261,.0045,.7161, .6292, .6229
K_7698,769.896 { 44},Y_3710,ppm, .7315,.0240,3.281, .7145, .7485
Li6707,670.784 { 50},Y_3710,ppm, .0083,.0016,19.62, .0095, .0072
Mg2790,279.079 {121},Y_3710,ppm, .1004,.0075,7.491, .1057, .0951
Mn2576,257.610 {131},Y_3600,ppm, .0116,.0002,2.112, .0118, .0114
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0108,.0022,20.20, .0124, .0093
Mo2020,202.030 {467},Y_2243,ppm, .0140,.0004,2.547, .0137, .0142
Na5895,589.592 { 57},Y_3710,ppm, .7481,.0066,.8835, .7528, .7434
Na8183,818.326 { 41},Y_3710,ppm, .7624,.0195,2.556, .7762, .7487
Ni2316,231.604 {445},In2306,ppm, .0095,.0001,1.282, .0094, .0096
P_1782,178.284 {489},In2306,ppm, -.0020,.0006,31.95, -.0016, -.0025
Pb2203,220.353 {453},In2306,ppm, .0099,.0001,.5331, .0099, .0100
S_1820,182.034 {485},Y_2243,ppm, -3.042,.1779,5.849, -3.167, -2.916
Sb2068,206.833 {463},Y_2243,ppm, .0121,.0012,9.555, .0113, .0129
Se1960,196.090 {472},Y_2243,ppm, .0099,.0015,15.39, .0088, .0110
Si2516,251.611 {134},Y_3710,ppm, .0097,.0016,16.35, .0108, .0086
Sn1899,189.989 {477},In2306,ppm, .0093,.0006,6.850, .0098, .0089
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0001,2.195, .0052, .0050
Ti3349,334.904 {101},Y_3600,ppm, .0091,.0000,.5209, .0090, .0091
Tl1908,190.856 {477},In2306,ppm, .0113,.0032,28.70, .0090, .0136
V_2924,292.402 {115},Y_3600,ppm, .0111,.0002,1.591, .0110, .0112
Zn2062,206.200 {463},In2306,ppm, .0089,.0001,1.170, .0088, .0090

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 933.98,1.4782,.15827,932.94,935.03
In2306,230.606 {446},Cts/S, 17207.,33.522,.19482,17183.,17231.
Y_2243,224.306 {450},Cts/S, 25468.,55.357,.21736,25428.,25507.

Y_3600,360.073 { 94},Cts/S, 204140.,2444.8,1.1976,202410.,205870.
Y_3710,371.030 { 91},Cts/S, 50752.,437.83,.86270,50442.,51061.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:31:01
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0007,.0001,7.472, .0007, .0007
Al3082,308.215 {109},In2306,ppm, -.0204,.0028,13.60, -.0223, -.0184
As1890,189.042 {478},Y_2243,ppm, -.0019,.0003,16.88, -.0016, -.0021
B_2496,249.678 {135},Y_3710,ppm, -.0039,.0002,4.522, -.0040, -.0038
Ba4554,455.403 { 74},Y_3710,ppm, -.0002,.0001,46.30, -.0001, -.0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,29.66, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0022,.0000,.6266, .0022, .0022
Ca3181,318.128 {106},In2306,ppm, .0155,.0083,53.45, .0214, .0096
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,4.237, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,135.1, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0006,.0001,11.33, -.0006, -.0007
Cu3247,324.754 {104},Y_3600,ppm, .0049,.0001,1.124, .0050, .0049
Fe2404,240.488 {140},In2306,ppm, -.0007,.0012,169.4, -.0016, .0001
K_7664,766.490 { 44},Y_3710,ppm, .0211,.0156,74.06, .0101, .0322
K_7698,769.896 { 44},Y_3710,ppm, .0512,.0031,6.044, .0490, .0534
Li6707,670.784 { 50},Y_3710,ppm, .0002,.0008,391.0, -.0004, .0008
Mg2790,279.079 {121},Y_3710,ppm, .0193,.0011,5.654, .0185, .0200
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0001,75.13, .0002, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0000,.6215, .0005, .0005
Mo2020,202.030 {467},Y_2243,ppm, .0004,.0003,69.81, .0002, .0006
Na5895,589.592 { 57},Y_3710,ppm, .1051,.0087,8.255, .0990, .1112
Na8183,818.326 { 41},Y_3710,ppm, .1906,.2064,108.3, .0447, .3365
Ni2316,231.604 {445},In2306,ppm, .0000,.0001,233.7, .0001, .0000
P_1782,178.284 {489},In2306,ppm, -.0025,.0006,26.38, -.0020, -.0029
Pb2203,220.353 {453},In2306,ppm, -.0003,.0007,229.0, -.0009, .0002
S_1820,182.034 {485},Y_2243,ppm, -2.477,.1403,5.664, -2.577, -2.378
Sb2068,206.833 {463},Y_2243,ppm, .0006,.0006,92.55, .0010, .0002
Se1960,196.090 {472},Y_2243,ppm, -.0010,.0012,128.8, -.0001, -.0018
Si2516,251.611 {134},Y_3710,ppm, .0001,.0018,1479., -.0011, .0014
Sn1899,189.989 {477},In2306,ppm, -.0005,.0006,123.1, -.0009, -.0001
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,42.55, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0006,.0004,62.60, -.0003, -.0009
Tl1908,190.856 {477},In2306,ppm, -.0006,.0000,1.406, -.0006, -.0006
V_2924,292.402 {115},Y_3600,ppm, .0004,.0002,46.52, .0006, .0003
Zn2062,206.200 {463},In2306,ppm, -.0002,.0000,16.91, -.0002, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 926.00,4.1216,.44510,923.09,928.92
In2306,230.606 {446},Cts/S, 17280.,25.028,.14484,17262.,17298.
Y_2243,224.306 {450},Cts/S, 25338.,42.812,.16897,25308.,25368.
Y_3600,360.073 { 94},Cts/S, 205940.,860.01,.41759,205340.,206550.
Y_3710,371.030 { 91},Cts/S, 49857.,166.79,.33453,49739.,49975.

```
[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-3-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:33:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0011,.0005,44.89, -.0008, -.0014
Al3082,308.215 {109},In2306,ppm, 6.814,.0032,.0470, 6.812, 6.817
As1890,189.042 {478},Y_2243,ppm, .0018,.0006,34.21, .0014, .0022
B_2496,249.678 {135},Y_3710,ppm, .1608,.0002,.0985, .1609, .1607
Ba4554,455.403 { 74},Y_3710,ppm, .1631,.0004,.2715, .1635, .1628
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,28.83, .0002, .0002
Ca3158,315.887 {107},In2306,ppm, 44.23,.5943,1.344, 44.65, 43.81
Ca3181,318.128 {106},In2306,ppm, 38.63,.2461,.6371, 38.80, 38.45
Cd2288,228.802 {447},Y_2243,ppm, .0007,.0001,11.37, .0007, .0006
Co2286,228.616 {447},In2306,ppm, .0083,.0001,.7249, .0083, .0082
Cr2677,267.716 {126},Y_3600,ppm, .0179,.0003,1.673, .0181, .0176
Cu3247,324.754 {104},Y_3600,ppm, .1739,.0010,.5518, .1732, .1746
Fe2404,240.488 {140},In2306,ppm, 5.013,.0003,.0065, 5.012, 5.013
K_7664,766.490 { 44},Y_3710,ppm, 4.738,.0100,.2115, 4.745, 4.731
K_7698,769.896 { 44},Y_3710,ppm, 4.981,.0233,.4685, 4.965, 4.998
Li6707,670.784 { 50},Y_3710,ppm, .0142,.0010,6.878, .0135, .0149
Mg2790,279.079 {121},Y_3710,ppm, 6.707,.0249,.3720, 6.725, 6.690
Mn2576,257.610 {131},Y_3600,ppm, .1615,.0009,.5795, .1622, .1609
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1586,.0007,.4237, .1590, .1581
Mo2020,202.030 {467},Y_2243,ppm, .0062,.0000,.2367, .0062, .0062
Na5895,589.592 { 57},Y_3710,ppm, 146.3,.5576,.3810, 145.9, 146.7
Na8183,818.326 { 41},Y_3710,ppm, 146.5,.6400,.4368, 147.0, 146.1
Ni2316,231.604 {445},In2306,ppm, .0433,.0001,.1221, .0434, .0433
P_1782,178.284 {489},In2306,ppm, 3.007,.0121,.4039, 3.016, 2.999
Pb2203,220.353 {453},In2306,ppm, .0361,.0012,3.427, .0369, .0352
S_1820,182.034 {485},Y_2243,ppm, -5590.,27.72,.4960, -5609., -5570.
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0006,46.26, -.0008, -.0016
Se1960,196.090 {472},Y_2243,ppm, .0005,.0003,55.52, .0003, .0007
Si2516,251.611 {134},Y_3710,ppm, 10.74,.0330,.3070, 10.76, 10.72
Sn1899,189.989 {477},In2306,ppm, .0035,.0000,.4678, .0035, .0035
Sr4215,421.552 { 80},Y_3710,ppm, .2085,.0008,.4051, .2091, .2079
Ti3349,334.904 {101},Y_3600,ppm, .0315,.0000,.0305, .0315, .0314
Tl1908,190.856 {477},In2306,ppm, -.0011,.0008,70.77, -.0006, -.0017
V_2924,292.402 {115},Y_3600,ppm, .0248,.0001,.2607, .0249, .0248
Zn2062,206.200 {463},In2306,ppm, .8096,.0076,.9413, .8150, .8042

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 889.43,13.321,1.4977,880.01,898.84
In2306,230.606 {446},Cts/S, 14406.,32.868,.22815,14383.,14430.
Y_2243,224.306 {450},Cts/S, 23865.,47.364,.19847,23832.,23899.
Y_3600,360.073 { 94},Cts/S, 191110.,497.05,.26008,190760.,191470.
Y_3710,371.030 { 91},Cts/S, 49184.,664.16,1.3504,48714.,49653.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-4-b
```

```
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:35:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0009,.0011,110.9, -.0017, -.0002
Al3082,308.215 {109},In2306,ppm, 57.03,.2163,.3794, 57.18, 56.87
As1890,189.042 {478},Y_2243,ppm, .0005,.0003,48.23, .0007, .0004
B_2496,249.678 {135},Y_3710,ppm, .1451,.0003,.1988, .1449, .1453
Ba4554,455.403 { 74},Y_3710,ppm, .1434,.0003,.1989, .1436, .1432
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,11.62, .0002, .0002
Ca3158,315.887 {107},In2306,ppm, 185.8,.6677,.3594, 185.3, 186.3
Ca3181,318.128 {106},In2306,ppm, 160.7,.1755,.1092, 160.6, 160.8
Cd2288,228.802 {447},Y_2243,ppm, .0009,.0001,6.901, .0010, .0009
Co2286,228.616 {447},In2306,ppm, .0025,.0003,10.51, .0027, .0024
Cr2677,267.716 {126},Y_3600,ppm, .0033,.0005,14.25, .0029, .0036
Cu3247,324.754 {104},Y_3600,ppm, .0082,.0000,.1792, .0082, .0082
Fe2404,240.488 {140},In2306,ppm, 1.108,.0029,.2660, 1.106, 1.110
K_7664,766.490 { 44},Y_3710,ppm, 220.8,.0375,.0170, 220.8, 220.9
K_7698,769.896 { 44},Y_3710,ppm, 224.9,.6104,.2714, 224.5, 225.4
Li6707,670.784 { 50},Y_3710,ppm, .0668,.0041,6.170, .0639, .0698
Mg2790,279.079 {121},Y_3710,ppm, 1452.,4.821,.3321, 1449., 1455.
Mn2576,257.610 {131},Y_3600,ppm, .4076,.0041,.9991, .4104, .4047
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4051,.0005,.1324, .4048, .4055
Mo2020,202.030 {467},Y_2243,ppm, .0065,.0001,1.720, .0066, .0064
Na5895,589.592 { 57},Y_3710,ppm,^ *****,-----,-----,^ -----,^ -----
Na8183,818.326 { 41},Y_3710,ppm, 6589.,53.39,.8102, 6552., 6627.
Ni2316,231.604 {445},In2306,ppm, .0901,.0010,1.133, .0909, .0894
P_1782,178.284 {489},In2306,ppm, .1271,.0192,15.11, .1135, .1406
Pb2203,220.353 {453},In2306,ppm, .0090,.0001,1.192, .0089, .0091
S_1820,182.034 {485},Y_2243,ppm, -283500.,9926.,3.501, -290500., -276500.
Sb2068,206.833 {463},Y_2243,ppm, -.0065,.0031,48.38, -.0043, -.0087
Se1960,196.090 {472},Y_2243,ppm, -.0002,.0007,356.7, -.0007, .0003
Si2516,251.611 {134},Y_3710,ppm, 6.935,.0117,.1680, 6.943, 6.927
Sn1899,189.989 {477},In2306,ppm, -.0043,.0006,14.35, -.0038, -.0047
Sr4215,421.552 { 80},Y_3710,ppm, .4953,.0001,.0209, .4954, .4952
Ti3349,334.904 {101},Y_3600,ppm, .0034,.0002,7.049, .0035, .0032
Tl1908,190.856 {477},In2306,ppm, -.0006,.0005,73.18, -.0003, -.0010
V_2924,292.402 {115},Y_3600,ppm, -.0027,.0003,12.54, -.0029, -.0024
Zn2062,206.200 {463},In2306,ppm, .2926,.0012,.4129, .2917, .2934

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 720.53,1.1646,.16163,719.70,721.35
In2306,230.606 {446},Cts/S, 8660.7,60.817,.70222,8617.7,8703.7
Y_2243,224.306 {450},Cts/S, 17580.,142.02,.80781,17480.,17681.
Y_3600,360.073 { 94},Cts/S, 136670.,657.48,.48107,136200.,137130.
Y_3710,371.030 { 91},Cts/S, 41995.,68.577,.16330,41946.,42043.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-6-b
Username=admin
Comment=
Custom ID1=
```

Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:38:18
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0004,.0013,349.9, .0013, -.0006
Al3082,308.215 {109},In2306,ppm, 6.575,.0606,.9216, 6.532, 6.618
As1890,189.042 {478},Y_2243,ppm, .0028,.0006,22.56, .0023, .0032
B_2496,249.678 {135},Y_3710,ppm, .0836,.0068,8.176, .0788, .0884
Ba4554,455.403 { 74},Y_3710,ppm, .0273,.0001,.3753, .0273, .0274
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,27.58, .0001, .0002
Ca3158,315.887 {107},In2306,ppm, 533.6,1.099,.2059, 534.4, 532.8
Ca3181,318.128 {106},In2306,ppm, 465.0,1.470,.3160, 464.0, 466.0
Cd2288,228.802 {447},Y_2243,ppm, .0008,.0001,6.771, .0007, .0008
Co2286,228.616 {447},In2306,ppm, .0013,.0001,9.633, .0014, .0012
Cr2677,267.716 {126},Y_3600,ppm, .0042,.0004,9.154, .0045, .0039
Cu3247,324.754 {104},Y_3600,ppm, .0121,.0002,1.661, .0122, .0119
Fe2404,240.488 {140},In2306,ppm, 1.215,.0030,.2459, 1.213, 1.217
K_7664,766.490 { 44},Y_3710,ppm, 13.82,.0615,.4450, 13.87, 13.78
K_7698,769.896 { 44},Y_3710,ppm, 13.94,.0531,.3806, 13.91, 13.98
Li6707,670.784 { 50},Y_3710,ppm, .0487,.0014,2.834, .0497, .0477
Mg2790,279.079 {121},Y_3710,ppm, 465.4,.7026,.1510, 464.9, 465.9
Mn2576,257.610 {131},Y_3600,ppm, 1.617,.0089,.5524, 1.611, 1.624
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.626,.0025,.1531, 1.624, 1.628
Mo2020,202.030 {467},Y_2243,ppm, .0025,.0002,9.036, .0026, .0023
Na5895,589.592 { 57},Y_3710,ppm,^ *****,-----,-----,^ -----,^ -----
Na8183,818.326 { 41},Y_3710,ppm, 11110.,64.40,.5795, 11070., 11160.
Ni2316,231.604 {445},In2306,ppm, .0089,.0008,8.586, .0083, .0094
P_1782,178.284 {489},In2306,ppm, .2723,.0008,.2972, .2717, .2729
Pb2203,220.353 {453},In2306,ppm, .0463,.0003,.7055, .0460, .0465
S_1820,182.034 {485},Y_2243,ppm, -341300.,5668.,1.661, -345300., -337300.
Sb2068,206.833 {463},Y_2243,ppm, -.0050,.0006,12.10, -.0054, -.0046
Se1960,196.090 {472},Y_2243,ppm, .0006,.0015,227.4, -.0004, .0017
Si2516,251.611 {134},Y_3710,ppm, 3.394,.0246,.7254, 3.376, 3.411
Sn1899,189.989 {477},In2306,ppm, -.0094,.0000,.2167, -.0094, -.0094
Sr4215,421.552 { 80},Y_3710,ppm, .7306,.0002,.0250, .7307, .7304
Ti3349,334.904 {101},Y_3600,ppm, .0241,.0001,.5667, .0240, .0242
Tl1908,190.856 {477},In2306,ppm, -.0053,.0004,7.756, -.0055, -.0050
V_2924,292.402 {115},Y_3600,ppm, .0082,.0002,2.598, .0083, .0080
Zn2062,206.200 {463},In2306,ppm, .2565,.0012,.4648, .2557, .2574

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 689.90,2.8028,.40626,691.89,687.92
In2306,230.606 {446},Cts/S, 7987.7,33.517,.41960,8011.4,7964.0
Y_2243,224.306 {450},Cts/S, 16767.,74.352,.44344,16820.,16715.
Y_3600,360.073 { 94},Cts/S, 130680.,305.00,.23339,130900.,130470.
Y_3710,371.030 { 91},Cts/S, 40780.,66.256,.16247,40827.,40734.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-5-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:40:52

Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0010,.0001,9.552, -.0010, -.0011
Al3082,308.215 {109},In2306,ppm, 693.4,14.00,2.020, 703.3, 683.5
As1890,189.042 {478},Y_2243,ppm, .0071,.0030,42.70, .0050, .0092
B_2496,249.678 {135},Y_3710,ppm, .3099,.0007,.2308, .3104, .3094
Ba4554,455.403 { 74},Y_3710,ppm, .1819,.0022,1.231, .1835, .1804
Be3130,313.042 {108},Y_3710,ppm, .0015,.0000,.7632, .0015, .0015
Ca3158,315.887 {107},In2306,ppm, 636.4,2.025,.3182, 637.8, 635.0
Ca3181,318.128 {106},In2306,ppm, 568.7,9.320,1.639, 575.3, 562.1
Cd2288,228.802 {447},Y_2243,ppm, .0011,.0000,1.131, .0011, .0011
Co2286,228.616 {447},In2306,ppm, .0220,.0001,.2325, .0220, .0220
Cr2677,267.716 {126},Y_3600,ppm, .0630,.0002,.3645, .0632, .0628
Cu3247,324.754 {104},Y_3600,ppm, .0210,.0004,1.971, .0213, .0207
Fe2404,240.488 {140},In2306,ppm, 89.55,1.377,1.537, 90.52, 88.58
K_7664,766.490 { 44},Y_3710,ppm, 1193.,13.42,1.126, 1202., 1183.
K_7698,769.896 { 44},Y_3710,ppm, 1268.,13.77,1.086, 1278., 1259.
Li6707,670.784 { 50},Y_3710,ppm, .1167,.0067,5.736, .1214, .1120
Mg2790,279.079 {121},Y_3710,ppm, 196.3,1.968,1.002, 197.7, 195.0
Mn2576,257.610 {131},Y_3600,ppm, 2.482,.0125,.5048, 2.490, 2.473
Mn2576-2,257.610 {131}2,Y_3710,ppm, 2.553,.0131,.5149, 2.562, 2.543
Mo2020,202.030 {467},Y_2243,ppm, .0050,.0000,.6913, .0049, .0050
Na5895,589.592 { 57},Y_3710,ppm,^ *****,-----,-----,^ -----,^ -----
Na8183,818.326 { 41},Y_3710,ppm, 22620.,119.2,.5271, 22540., 22710.
Ni2316,231.604 {445},In2306,ppm, .5003,.0093,1.855, .5069, .4937
P_1782,178.284 {489},In2306,ppm, 2.800,.0532,1.901, 2.837, 2.762
Pb2203,220.353 {453},In2306,ppm, .3306,.0066,1.989, .3352, .3259
S_1820,182.034 {485},Y_2243,ppm, -364800.,1194.,.3273, -363900., -365600.
Sb2068,206.833 {463},Y_2243,ppm, -.0225,.0036,15.78, -.0200, -.0250
Se1960,196.090 {472},Y_2243,ppm, .0099,.0012,12.28, .0090, .0107
Si2516,251.611 {134},Y_3710,ppm, 16.40,.1376,.8389, 16.50, 16.30
Sn1899,189.989 {477},In2306,ppm, -.0108,.0005,5.048, -.0112, -.0104
Sr4215,421.552 { 80},Y_3710,ppm, 1.556,.0164,1.054, 1.568, 1.544
Ti3349,334.904 {101},Y_3600,ppm, .0261,.0003,1.194, .0259, .0263
Tl1908,190.856 {477},In2306,ppm, -.0168,.0020,11.66, -.0182, -.0155
V_2924,292.402 {115},Y_3600,ppm, .0544,.0004,.6443, .0542, .0547
Zn2062,206.200 {463},In2306,ppm, .7444,.0122,1.644, .7531, .7358

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 612.21,9.5970,1.5676,605.42,618.99
In2306,230.606 {446},Cts/S, 6408.8,28.636,.44682,6388.5,6429.0
Y_2243,224.306 {450},Cts/S, 15711.,37.786,.24051,15684.,15738.
Y_3600,360.073 { 94},Cts/S, 118560.,790.30,.66661,118000.,119110.
Y_3710,371.030 { 91},Cts/S, 38593.,339.16,.87883,38353.,38832.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-7-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:43:26
Sample Type=Unk
Mode=CONC
CorrFactor=1.000

Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0015,.0009,60.92, -.0022, -.0009
Al3082,308.215 {109},In2306,ppm, 340.2,1.399,.4111, 341.2, 339.2
As1890,189.042 {478},Y_2243,ppm, .0062,.0004,6.663, .0065, .0059
B_2496,249.678 {135},Y_3710,ppm, .2497,.0041,1.627, .2525, .2468
Ba4554,455.403 { 74},Y_3710,ppm, .0336,.0001,.3226, .0336, .0335
Be3130,313.042 {108},Y_3710,ppm, .0008,.0000,.6047, .0008, .0008
Ca3158,315.887 {107},In2306,ppm, 281.4,.4171,.1482, 281.7, 281.1
Ca3181,318.128 {106},In2306,ppm, 243.9,.6704,.2748, 244.4, 243.5
Cd2288,228.802 {447},Y_2243,ppm, .0014,.0000,2.586, .0015, .0014
Co2286,228.616 {447},In2306,ppm, .0109,.0000,.1569, .0109, .0109
Cr2677,267.716 {126},Y_3600,ppm, .0207,.0000,.1786, .0207, .0207
Cu3247,324.754 {104},Y_3600,ppm, .0400,.0004,1.055, .0403, .0397
Fe2404,240.488 {140},In2306,ppm, 18.04,.1052,.5834, 18.11, 17.96
K_7664,766.490 { 44},Y_3710,ppm, 111.6,.6848,.6134, 112.1, 111.2
K_7698,769.896 { 44},Y_3710,ppm, 114.4,.6033,.5273, 114.8, 114.0
Li6707,670.784 { 50},Y_3710,ppm, .0367,.0004,1.189, .0364, .0370
Mg2790,279.079 {121},Y_3710,ppm, 469.6,1.121,.2387, 470.4, 468.9
Mn2576,257.610 {131},Y_3600,ppm, 1.750,.0085,.4831, 1.744, 1.756
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.803,.0034,.1878, 1.805, 1.801
Mo2020,202.030 {467},Y_2243,ppm, .0572,.0025,4.383, .0590, .0555
Na5895,589.592 { 57},Y_3710,ppm,^ *****,-----,-----,^ -----,^ -----
Na8183,818.326 { 41},Y_3710,ppm, 8811.,157.0,1.782, 8922., 8700.
Ni2316,231.604 {445},In2306,ppm, .2068,.0010,.4926, .2061, .2075
P_1782,178.284 {489},In2306,ppm, .2822,.0066,2.332, .2775, .2868
Pb2203,220.353 {453},In2306,ppm, .2985,.0006,.1891, .2989, .2981
S_1820,182.034 {485},Y_2243,ppm, -292900.,2103.,.7179, -294400., -291400.
Sb2068,206.833 {463},Y_2243,ppm, -.0116,.0027,23.09, -.0097, -.0135
Se1960,196.090 {472},Y_2243,ppm, .0034,.0017,50.67, .0047, .0022
Si2516,251.611 {134},Y_3710,ppm, 9.416,.0421,.4467, 9.446, 9.386
Sn1899,189.989 {477},In2306,ppm, -.0063,.0031,48.65, -.0041, -.0085
Sr4215,421.552 { 80},Y_3710,ppm, .4563,.0014,.2973, .4572, .4553
Ti3349,334.904 {101},Y_3600,ppm, .0101,.0003,2.740, .0103, .0099
Tl1908,190.856 {477},In2306,ppm, -.0116,.0038,32.55, -.0089, -.0142
V_2924,292.402 {115},Y_3600,ppm, .0151,.0006,3.998, .0155, .0147
Zn2062,206.200 {463},In2306,ppm, 1.098,.0030,.2716, 1.100, 1.096

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 720.20,4.5215,.62781,717.01,723.40
In2306,230.606 {446},Cts/S, 8258.0,.30020,.00364,8258.2,8257.8
Y_2243,224.306 {450},Cts/S, 18539.,51.268,.27654,18503.,18575.
Y_3600,360.073 { 94},Cts/S, 142330.,267.85,.18819,142520.,142140.
Y_3710,371.030 { 91},Cts/S, 43451.,212.30,.48859,43301.,43601.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-8-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:45:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]

```
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0011,.0019,173.0, .0003, -.0025
Al3082,308.215 {109},In2306,ppm, 490.4,4.379,.8930, 487.3, 493.5
As1890,189.042 {478},Y_2243,ppm, .0059,.0003,4.514, .0057, .0061
B_2496,249.678 {135},Y_3710,ppm, .1843,.0020,1.085, .1829, .1858
Ba4554,455.403 { 74},Y_3710,ppm, .0154,.0003,2.173, .0151, .0156
Be3130,313.042 {108},Y_3710,ppm, .0011,.0000,4.122, .0011, .0011
Ca3158,315.887 {107},In2306,ppm, 343.1,.6248,.1821, 342.7, 343.6
Ca3181,318.128 {106},In2306,ppm, 299.2,1.483,.4958, 298.1, 300.2
Cd2288,228.802 {447},Y_2243,ppm, .0016,.0000,.5253, .0016, .0016
Co2286,228.616 {447},In2306,ppm, .0117,.0002,1.609, .0116, .0119
Cr2677,267.716 {126},Y_3600,ppm, .0326,.0006,1.785, .0330, .0322
Cu3247,324.754 {104},Y_3600,ppm, .0080,.0002,3.074, .0078, .0082
Fe2404,240.488 {140},In2306,ppm, 39.19,.3013,.7689, 38.97, 39.40
K_7664,766.490 { 44},Y_3710,ppm, 219.8,1.336,.6077, 218.8, 220.7
K_7698,769.896 { 44},Y_3710,ppm, 224.8,1.011,.4499, 224.0, 225.5
Li6707,670.784 { 50},Y_3710,ppm, .0524,.0014,2.735, .0535, .0514
Mg2790,279.079 {121},Y_3710,ppm, 826.4,.7979,.0966, 826.9, 825.8
Mn2576,257.610 {131},Y_3600,ppm, 1.680,.0107,.6345, 1.673, 1.688
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.667,.0061,.3686, 1.672, 1.663
Mo2020,202.030 {467},Y_2243,ppm, .0038,.0023,58.91, .0054, .0022
Na5895,589.592 { 57},Y_3710,ppm,^ *****,-----,-----,^ -----,^ -----
Na8183,818.326 { 41},Y_3710,ppm, 12680.,39.75,.3136, 12710., 12650.
Ni2316,231.604 {445},In2306,ppm, .2841,.0065,2.274, .2887, .2795
P_1782,178.284 {489},In2306,ppm, .5592,.0220,3.937, .5748, .5437
Pb2203,220.353 {453},In2306,ppm, .3273,.0112,3.423, .3353, .3194
S_1820,182.034 {485},Y_2243,ppm, -335800.,7196.,2.143, -340900., -330800.
Sb2068,206.833 {463},Y_2243,ppm, -.0181,.0031,17.11, -.0203, -.0159
Se1960,196.090 {472},Y_2243,ppm, .0069,.0041,59.29, .0098, .0040
Si2516,251.611 {134},Y_3710,ppm, 11.95,.0074,.0618, 11.95, 11.96
Sn1899,189.989 {477},In2306,ppm, -.0050,.0011,22.04, -.0042, -.0057
Sr4215,421.552 { 80},Y_3710,ppm, .5489,.0016,.2921, .5478, .5501
Ti3349,334.904 {101},Y_3600,ppm, .0192,.0001,.4524, .0193, .0192
Tl1908,190.856 {477},In2306,ppm, -.0107,.0001,.7763, -.0106, -.0108
V_2924,292.402 {115},Y_3600,ppm, .0518,.0004,.6952, .0520, .0515
Zn2062,206.200 {463},In2306,ppm, 1.258,.0306,2.435, 1.280, 1.236

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 671.18,.60839,.09065,671.61,670.75
In2306,230.606 {446},Cts/S, 7386.2,154.95,2.0979,7276.7,7495.8
Y_2243,224.306 {450},Cts/S, 16736.,308.48,1.8432,16518.,16954.
Y_3600,360.073 { 94},Cts/S, 129220.,140.56,.10878,129120.,129320.
Y_3710,371.030 { 91},Cts/S, 41378.,142.53,.34447,41277.,41478.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-9-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:48:17
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0551,.0004,.8153, .0555, .0548
Al3082,308.215 {109},In2306,ppm, 2.905,.0018,.0612, 2.906, 2.904
```

As1890,189.042 {478},Y_2243,ppm, .0009,.0003,30.55, .0010, .0007
B_2496,249.678 {135},Y_3710,ppm, -.0032,.0012,38.73, -.0040, -.0023
Ba4554,455.403 { 74},Y_3710,ppm, .2224,.0013,.5723, .2233, .2215
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,8.447, .0002, .0002
Ca3158,315.887 {107},In2306,ppm, 58.50,.0293,.0502, 58.52, 58.48
Ca3181,318.128 {106},In2306,ppm, 50.65,.0466,.0919, 50.69, 50.62
Cd2288,228.802 {447},Y_2243,ppm, .0019,.0000,.4426, .0019, .0019
Co2286,228.616 {447},In2306,ppm, .0004,.0000,8.611, .0004, .0004
Cr2677,267.716 {126},Y_3600,ppm, .0178,.0001,.5392, .0179, .0178
Cu3247,324.754 {104},Y_3600,ppm, .1390,.0000,.0033, .1390, .1390
Fe2404,240.488 {140},In2306,ppm, 9.342,.0484,.5181, 9.377, 9.308
K_7664,766.490 { 44},Y_3710,ppm, .9841,.0361,3.666, 1.010, .9585
K_7698,769.896 { 44},Y_3710,ppm, 1.135,.0294,2.588, 1.156, 1.114
Li6707,670.784 { 50},Y_3710,ppm, .0050,.0007,14.77, .0055, .0044
Mg2790,279.079 {121},Y_3710,ppm, .5120,.0188,3.666, .5253, .4987
Mn2576,257.610 {131},Y_3600,ppm, .0774,.0009,1.205, .0767, .0780
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0758,.0010,1.256, .0751, .0765
Mo2020,202.030 {467},Y_2243,ppm, .0063,.0001,1.108, .0062, .0063
Na5895,589.592 { 57},Y_3710,ppm, 15.20,1.422,9.356, 16.21, 14.20
Na8183,818.326 { 41},Y_3710,ppm, 2.609,.3652,14.00, 2.867, 2.351
Ni2316,231.604 {445},In2306,ppm, .0094,.0001,.8442, .0094, .0095
P_1782,178.284 {489},In2306,ppm, .2137,.0007,.3370, .2142, .2132
Pb2203,220.353 {453},In2306,ppm, .0270,.0003,1.216, .0268, .0273
S_1820,182.034 {485},Y_2243,ppm, -562.6,133.3,23.69, -468.4, -656.8
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0010,106.3, -.0002, -.0016
Se1960,196.090 {472},Y_2243,ppm, .0031,.0016,52.31, .0042, .0019
Si2516,251.611 {134},Y_3710,ppm, 1.591,.0023,.1477, 1.589, 1.593
Sn1899,189.989 {477},In2306,ppm, .0156,.0000,.1648, .0156, .0155
Sr4215,421.552 { 80},Y_3710,ppm, .1576,.0003,.1701, .1578, .1574
Ti3349,334.904 {101},Y_3600,ppm, .0431,.0008,1.849, .0425, .0436
Tl1908,190.856 {477},In2306,ppm, -.0013,.0003,25.01, -.0011, -.0016
V_2924,292.402 {115},Y_3600,ppm, .0085,.0001,.7886, .0085, .0086
Zn2062,206.200 {463},In2306,ppm, 1.755,.0009,.0494, 1.756, 1.755

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 918.15,1.6038,.17468,919.29,917.02
In2306,230.606 {446},Cts/S, 16089.,29.626,.18413,16110.,16068.
Y_2243,224.306 {450},Cts/S, 24421.,33.803,.13842,24445.,24397.
Y_3600,360.073 { 94},Cts/S, 200930.,1793.3,.89252,202190.,199660.
Y_3710,371.030 { 91},Cts/S, 51133.,80.906,.15823,51075.,51190.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63153-c-10-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:50:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0003,.0003,131.6, .0000, .0005
Al3082,308.215 {109},In2306,ppm, .1077,.0137,12.70, .1174, .0981
As1890,189.042 {478},Y_2243,ppm, -.0007,.0007,100.4, -.0002, -.0011
B_2496,249.678 {135},Y_3710,ppm, .0780,.0005,.6401, .0776, .0783
Ba4554,455.403 { 74},Y_3710,ppm, .2765,.0013,.4585, .2774, .2756

Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,38.00, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, 28.53,.0745,.2613, 28.48, 28.59
Ca3181,318.128 {106},In2306,ppm, 24.75,.1343,.5427, 24.66, 24.85
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,46.57, .0001, .0001
Co2286,228.616 {447},In2306,ppm, -.0001,.0000,19.33, -.0001, -.0002
Cr2677,267.716 {126},Y_3600,ppm, .0005,.0001,28.17, .0004, .0006
Cu3247,324.754 {104},Y_3600,ppm, .0536,.0006,1.028, .0532, .0540
Fe2404,240.488 {140},In2306,ppm, .3970,.0056,1.400, .4010, .3931
K_7664,766.490 { 44},Y_3710,ppm, 9.530,.0017,.0173, 9.532, 9.529
K_7698,769.896 { 44},Y_3710,ppm, 9.804,.0115,.1174, 9.812, 9.796
Li6707,670.784 { 50},Y_3710,ppm, .0130,.0000,.3757, .0130, .0130
Mg2790,279.079 {121},Y_3710,ppm, 4.963,.0274,.5526, 4.982, 4.943
Mn2576,257.610 {131},Y_3600,ppm, .0541,.0002,.3125, .0540, .0542
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0523,.0002,.4578, .0524, .0521
Mo2020,202.030 {467},Y_2243,ppm, .0026,.0006,22.87, .0022, .0030
Na5895,589.592 { 57},Y_3710,ppm, 72.27,.5670,.7846, 72.67, 71.87
Na8183,818.326 { 41},Y_3710,ppm, 63.03,.1005,.1595, 63.10, 62.96
Ni2316,231.604 {445},In2306,ppm, .0012,.0000,.1398, .0012, .0012
P_1782,178.284 {489},In2306,ppm, 3.894,.1166,2.994, 3.812, 3.977
Pb2203,220.353 {453},In2306,ppm, .0021,.0007,32.90, .0026, .0016
S_1820,182.034 {485},Y_2243,ppm, -1812.,44.34,2.448, -1780., -1843.
Sb2068,206.833 {463},Y_2243,ppm, .0006,.0005,98.27, .0009, .0002
Se1960,196.090 {472},Y_2243,ppm, .0000,.0022,27790., -.0016, .0016
Si2516,251.611 {134},Y_3710,ppm, 5.400,.0242,.4487, 5.417, 5.383
Sn1899,189.989 {477},In2306,ppm, -.0005,.0003,64.18, -.0007, -.0003
Sr4215,421.552 { 80},Y_3710,ppm, .2074,.0006,.3103, .2079, .2070
Ti3349,334.904 {101},Y_3600,ppm, .0011,.0004,38.19, .0014, .0008
Tl1908,190.856 {477},In2306,ppm, .0000,.0005,2903., .0003, -.0004
V_2924,292.402 {115},Y_3600,ppm, .0025,.0000,.5453, .0025, .0025
Zn2062,206.200 {463},In2306,ppm, .1708,.0069,4.042, .1659, .1757

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 902.51,3.2896,.36449,904.83,900.18
In2306,230.606 {446},Cts/S, 15210.,357.09,2.3477,15463.,14958.
Y_2243,224.306 {450},Cts/S, 23800.,528.55,2.2209,24173.,23426.
Y_3600,360.073 { 94},Cts/S, 193560.,531.12,.27439,193940.,193190.
Y_3710,371.030 { 91},Cts/S, 49788.,453.26,.91038,49468.,50109.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=PDS 600-63145-d-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:52:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6001,.0015,.2549, .5990, .6012
Al3082,308.215 {109},In2306,ppm, 9.599,.0166,.1734, 9.587, 9.610
As1890,189.042 {478},Y_2243,ppm, 1.056,.0181,1.714, 1.069, 1.043
B_2496,249.678 {135},Y_3710,ppm, 1.115,.0066,.5921, 1.111, 1.120
Ba4554,455.403 { 74},Y_3710,ppm, 1.124,.0013,.1186, 1.123, 1.125
Be3130,313.042 {108},Y_3710,ppm, .4792,.0026,.5359, .4774, .4810
Ca3158,315.887 {107},In2306,ppm, 65.67,.3937,.5995, 65.39, 65.95
Ca3181,318.128 {106},In2306,ppm, 56.56,.4116,.7277, 56.27, 56.85

```
Cd2288,228.802 {447},Y_2243,ppm, .5003,.0071,1.422, .5053, .4953
Co2286,228.616 {447},In2306,ppm, .9190,.0123,1.343, .9277, .9103
Cr2677,267.716 {126},Y_3600,ppm, .9755,.0037,.3811, .9729, .9781
Cu3247,324.754 {104},Y_3600,ppm, 1.035,.0017,.1679, 1.034, 1.036
Fe2404,240.488 {140},In2306,ppm, 9.616,.0533,.5545, 9.578, 9.653
K_7664,766.490 { 44},Y_3710,ppm, 19.62,.0012,.0063, 19.61, 19.62
K_7698,769.896 { 44},Y_3710,ppm, 20.08,.0152,.0758, 20.07, 20.09
Li6707,670.784 { 50},Y_3710,ppm, .5067,.0015,.3046, .5078, .5056
Mg2790,279.079 {121},Y_3710,ppm, 14.14,.1002,.7085, 14.07, 14.21
Mn2576,257.610 {131},Y_3600,ppm, 1.133,.0027,.2397, 1.131, 1.135
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.110,.0064,.5742, 1.105, 1.114
Mo2020,202.030 {467},Y_2243,ppm, 1.228,.0103,.8362, 1.235, 1.220
Na5895,589.592 { 57},Y_3710,ppm, 92.79,.0517,.0557, 92.76, 92.83
Na8183,818.326 { 41},Y_3710,ppm, 84.75,.0620,.0732, 84.80, 84.71
Ni2316,231.604 {445},In2306,ppm, .9732,.0118,1.215, .9816, .9649
P_1782,178.284 {489},In2306,ppm, 3.847,.0657,1.708, 3.893, 3.800
Pb2203,220.353 {453},In2306,ppm, .9362,.0116,1.242, .9444, .9280
S_1820,182.034 {485},Y_2243,ppm, -1507.,22.73,1.508, -1524., -1491.
Sb2068,206.833 {463},Y_2243,ppm, 1.045,.0186,1.777, 1.058, 1.032
Se1960,196.090 {472},Y_2243,ppm, 1.092,.0070,.6399, 1.097, 1.088
Si2516,251.611 {134},Y_3710,ppm, 13.05,.0277,.2123, 13.03, 13.07
Sn1899,189.989 {477},In2306,ppm, 1.112,.0135,1.216, 1.121, 1.102
Sr4215,421.552 { 80},Y_3710,ppm, .7723,.0012,.1600, .7714, .7732
Ti3349,334.904 {101},Y_3600,ppm, .9404,.0034,.3625, .9380, .9428
Tl1908,190.856 {477},In2306,ppm, .8668,.0136,1.565, .8764, .8573
V_2924,292.402 {115},Y_3600,ppm, 1.048,.0021,.1996, 1.047, 1.050
Zn2062,206.200 {463},In2306,ppm, .9674,.0107,1.101, .9749, .9599

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 882.76,11.602,1.3143,890.97,874.56
In2306,230.606 {446},Cts/S, 14381.,175.51,1.2205,14256.,14505.
Y_2243,224.306 {450},Cts/S, 23692.,281.49,1.1881,23493.,23891.
Y_3600,360.073 { 94},Cts/S, 189990.,1014.3,.53388,190710.,189280.
Y_3710,371.030 { 91},Cts/S, 49653.,548.88,1.1054,50041.,49265.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=SD 600-63145-d-1-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:54:56
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0008,.0015,194.0, -.0018, .0003
Al3082,308.215 {109},In2306,ppm, -.0206,.0202,98.28, -.0063, -.0349
As1890,189.042 {478},Y_2243,ppm, -.0004,.0010,229.7, -.0011, .0003
B_2496,249.678 {135},Y_3710,ppm, .0343,.0030,8.851, .0321, .0364
Ba4554,455.403 { 74},Y_3710,ppm, .0326,.0000,.0301, .0326, .0326
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,98.56, .0002, .0000
Ca3158,315.887 {107},In2306,ppm, 10.93,.0033,.0298, 10.93, 10.93
Ca3181,318.128 {106},In2306,ppm, 9.393,.0563,.5996, 9.433, 9.354
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0001,79.51, .0000, .0001
Co2286,228.616 {447},In2306,ppm, .0002,.0003,189.7, -.0001, .0004
Cr2677,267.716 {126},Y_3600,ppm, -.0001,.0001,57.15, -.0001, -.0002
```

Cu3247,324.754 {104},Y_3600,ppm, .0078,.0000,.0516, .0078, .0078
Fe2404,240.488 {140},In2306,ppm, .0030,.0060,195.6, -.0012, .0073
K_7664,766.490 { 44},Y_3710,ppm, 2.229,.0071,.3180, 2.224, 2.234
K_7698,769.896 { 44},Y_3710,ppm, 2.363,.0164,.6958, 2.374, 2.351
Li6707,670.784 { 50},Y_3710,ppm, .0046,.0003,7.547, .0049, .0044
Mg2790,279.079 {121},Y_3710,ppm, 1.096,.0106,.9699, 1.088, 1.103
Mn2576,257.610 {131},Y_3600,ppm, .0005,.0001,18.38, .0006, .0005
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0006,.0003,49.69, .0004, .0009
Mo2020,202.030 {467},Y_2243,ppm, .0026,.0012,47.01, .0018, .0035
Na5895,589.592 { 57},Y_3710,ppm, 18.36,.0360,.1961, 18.39, 18.34
Na8183,818.326 { 41},Y_3710,ppm, 15.33,.0285,.1859, 15.35, 15.31
Ni2316,231.604 {445},In2306,ppm, .0004,.0001,23.39, .0003, .0004
P_1782,178.284 {489},In2306,ppm, .6925,.0034,.4956, .6950, .6901
Pb2203,220.353 {453},In2306,ppm, .0004,.0001,31.88, .0003, .0005
S_1820,182.034 {485},Y_2243,ppm, -322.5,2.420,.7504, -324.2, -320.8
Sb2068,206.833 {463},Y_2243,ppm, .0024,.0009,38.67, .0017, .0031
Se1960,196.090 {472},Y_2243,ppm, .0013,.0002,11.77, .0014, .0012
Si2516,251.611 {134},Y_3710,ppm, 2.415,.0244,1.012, 2.397, 2.432
Sn1899,189.989 {477},In2306,ppm, .0000,.0011,2387., -.0009, .0008
Sr4215,421.552 { 80},Y_3710,ppm, .0535,.0000,.0723, .0535, .0535
Ti3349,334.904 {101},Y_3600,ppm, .0001,.0000,35.77, .0001, .0001
Tl1908,190.856 {477},In2306,ppm, -.0004,.0005,130.1, -.0008, .0000
V_2924,292.402 {115},Y_3600,ppm, .0013,.0002,13.37, .0014, .0012
Zn2062,206.200 {463},In2306,ppm, .0121,.0002,2.033, .0119, .0123

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 916.01,4.3545,.47538,912.93,919.09
In2306,230.606 {446},Cts/S, 16372.,36.511,.22301,16346.,16398.
Y_2243,224.306 {450},Cts/S, 24628.,3.7615,.01527,24631.,24625.
Y_3600,360.073 { 94},Cts/S, 198890.,215.81,.10850,199050.,198740.
Y_3710,371.030 { 91},Cts/S, 49462.,116.73,.23600,49544.,49379.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:57:16
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2976,.0012,.4030, .2985, .2968
Al3082,308.215 {109},In2306,ppm, 2.348,.0627,2.672, 2.304, 2.392
As1890,189.042 {478},Y_2243,ppm, .5151,.0009,.1763, .5158, .5145
B_2496,249.678 {135},Y_3710,ppm, .4676,.0120,2.571, .4591, .4761
Ba4554,455.403 { 74},Y_3710,ppm, .4795,.0081,1.692, .4738, .4852
Be3130,313.042 {108},Y_3710,ppm, .4760,.0060,1.257, .4718, .4803
Ca3158,315.887 {107},In2306,ppm, 13.83,.3271,2.365, 13.60, 14.06
Ca3181,318.128 {106},In2306,ppm, 11.82,.3331,2.818, 11.58, 12.05
Cd2288,228.802 {447},Y_2243,ppm, .4970,.0024,.4770, .4986, .4953
Co2286,228.616 {447},In2306,ppm, .4421,.0025,.5725, .4439, .4403
Cr2677,267.716 {126},Y_3600,ppm, .4989,.0009,.1832, .4996, .4983
Cu3247,324.754 {104},Y_3600,ppm, .5145,.0026,.5048, .5163, .5127
Fe2404,240.488 {140},In2306,ppm, 2.403,.0793,3.300, 2.347, 2.459
K_7664,766.490 { 44},Y_3710,ppm, 11.85,.1232,1.039, 11.77, 11.94

K_7698,769.896 { 44},Y_3710,ppm, 12.18,.1760,1.444, 12.06, 12.31
Li6707,670.784 { 50},Y_3710,ppm, .4938,.0026,.5285, .4920, .4957
Mg2790,279.079 {121},Y_3710,ppm, 4.616,.0741,1.605, 4.564, 4.669
Mn2576,257.610 {131},Y_3600,ppm, .5722,.0047,.8265, .5689, .5756
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5647,.0057,1.014, .5607, .5688
Mo2020,202.030 {467},Y_2243,ppm, .6272,.0053,.8463, .6310, .6235
Na5895,589.592 { 57},Y_3710,ppm, 14.42,.1551,1.076, 14.31, 14.53
Na8183,818.326 { 41},Y_3710,ppm, 12.05,.0461,.3821, 12.02, 12.09
Ni2316,231.604 {445},In2306,ppm, .4714,.0037,.7832, .4740, .4688
P_1782,178.284 {489},In2306,ppm, .4567,.0029,.6366, .4587, .4546
Pb2203,220.353 {453},In2306,ppm, .4628,.0020,.4296, .4642, .4614
S_1820,182.034 {485},Y_2243,ppm, -215.4,2.518,1.169, -217.1, -213.6
Sb2068,206.833 {463},Y_2243,ppm, .5251,.0016,.3099, .5263, .5240
Se1960,196.090 {472},Y_2243,ppm, .5356,.0044,.8288, .5387, .5324
Si2516,251.611 {134},Y_3710,ppm, .9752,.0125,1.278, .9664, .9841
Sn1899,189.989 {477},In2306,ppm, .5440,.0027,.4914, .5459, .5421
Sr4215,421.552 { 80},Y_3710,ppm, .2527,.0023,.9240, .2511, .2544
Ti3349,334.904 {101},Y_3600,ppm, .4730,.0011,.2351, .4722, .4738
Tl1908,190.856 {477},In2306,ppm, .4364,.0019,.4349, .4377, .4350
V_2924,292.402 {115},Y_3600,ppm, .5265,.0002,.0419, .5264, .5267
Zn2062,206.200 {463},In2306,ppm, .4372,.0028,.6423, .4392, .4352

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 893.36,19.651,2.1997,907.26,879.47
In2306,230.606 {446},Cts/S, 16033.,45.994,.28688,16000.,16065.
Y_2243,224.306 {450},Cts/S, 24610.,63.824,.25934,24565.,24655.
Y_3600,360.073 { 94},Cts/S, 198170.,564.80,.28500,198570.,197770.
Y_3710,371.030 { 91},Cts/S, 49164.,637.50,1.2967,49614.,48713.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 10:59:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0056,.0015,25.99, .0067, .0046
Al3082,308.215 {109},In2306,ppm, .0712,.0008,1.063, .0717, .0706
As1890,189.042 {478},Y_2243,ppm, .0079,.0003,3.247, .0077, .0081
B_2496,249.678 {135},Y_3710,ppm, .0091,.0009,9.393, .0085, .0097
Ba4554,455.403 { 74},Y_3710,ppm, .0097,.0002,1.767, .0096, .0098
Be3130,313.042 {108},Y_3710,ppm, .0048,.0002,3.305, .0047, .0050
Ca3158,315.887 {107},In2306,ppm, .1190,.0031,2.596, .1168, .1212
Ca3181,318.128 {106},In2306,ppm, .1140,.0015,1.279, .1130, .1151
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0001,2.188, .0051, .0052
Co2286,228.616 {447},In2306,ppm, .0087,.0000,.2365, .0087, .0087
Cr2677,267.716 {126},Y_3600,ppm, .0102,.0002,1.984, .0103, .0100
Cu3247,324.754 {104},Y_3600,ppm, .0152,.0002,1.036, .0153, .0150
Fe2404,240.488 {140},In2306,ppm, .0988,.0030,3.008, .0967, .1009
K_7664,766.490 { 44},Y_3710,ppm, .7105,.0083,1.169, .7046, .7164
K_7698,769.896 { 44},Y_3710,ppm, .7963,.0331,4.157, .7729, .8197
Li6707,670.784 { 50},Y_3710,ppm, .0077,.0001,1.191, .0077, .0078
Mg2790,279.079 {121},Y_3710,ppm, .0926,.0027,2.958, .0906, .0945

Mn2576,257.610 {131},Y_3600,ppm, .0116,.0003,2.801, .0118, .0114
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0111,.0005,4.160, .0108, .0115
Mo2020,202.030 {467},Y_2243,ppm, .0139,.0009,6.832, .0132, .0146
Na5895,589.592 { 57},Y_3710,ppm, 2.222,.0274,1.231, 2.202, 2.241
Na8183,818.326 { 41},Y_3710,ppm, 1.177,.0043,.3684, 1.174, 1.180
Ni2316,231.604 {445},In2306,ppm, .0093,.0000,.1718, .0093, .0092
P_1782,178.284 {489},In2306,ppm, -.0030,.0003,9.726, -.0028, -.0032
Pb2203,220.353 {453},In2306,ppm, .0098,.0005,5.474, .0095, .0102
S_1820,182.034 {485},Y_2243,ppm, -23.38,.9816,4.199, -24.07, -22.68
Sb2068,206.833 {463},Y_2243,ppm, .0122,.0004,3.375, .0124, .0119
Se1960,196.090 {472},Y_2243,ppm, .0107,.0021,19.52, .0092, .0122
Si2516,251.611 {134},Y_3710,ppm, .0132,.0023,17.76, .0115, .0148
Sn1899,189.989 {477},In2306,ppm, .0095,.0015,15.39, .0085, .0106
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0001,2.352, .0050, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0095,.0004,4.512, .0098, .0092
Tl1908,190.856 {477},In2306,ppm, .0109,.0015,13.49, .0099, .0120
V_2924,292.402 {115},Y_3600,ppm, .0108,.0002,1.691, .0109, .0106
Zn2062,206.200 {463},In2306,ppm, .0086,.0001,.8273, .0086, .0087

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 910.16,22.344,2.4549,925.96,894.36
In2306,230.606 {446},Cts/S, 17322.,13.176,.07606,17313.,17332.
Y_2243,224.306 {450},Cts/S, 25154.,3.4071,.01354,25157.,25152.
Y_3600,360.073 { 94},Cts/S, 204110.,2231.8,1.0934,202530.,205690.
Y_3710,371.030 { 91},Cts/S, 49562.,884.42,1.7845,50188.,48937.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:01:43
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0009,360.9, .0004, -.0009
Al3082,308.215 {109},In2306,ppm, -.0203,.0060,29.47, -.0161, -.0245
As1890,189.042 {478},Y_2243,ppm, -.0025,.0001,3.984, -.0024, -.0025
B_2496,249.678 {135},Y_3710,ppm, -.0029,.0000,.2563, -.0029, -.0029
Ba4554,455.403 { 74},Y_3710,ppm, -.0002,.0001,65.46, -.0003, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,25.61, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0063,.0097,152.9, .0132, -.0005
Ca3181,318.128 {106},In2306,ppm, .0181,.0058,32.23, .0222, .0140
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,52.57, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0001,460.1, -.0001, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0001,44.41, -.0004, -.0002
Cu3247,324.754 {104},Y_3600,ppm, .0041,.0002,4.979, .0042, .0039
Fe2404,240.488 {140},In2306,ppm, .0010,.0021,206.1, -.0005, .0025
K_7664,766.490 { 44},Y_3710,ppm, .1310,.0205,15.63, .1165, .1454
K_7698,769.896 { 44},Y_3710,ppm, .2192,.0647,29.52, .2650, .1735
Li6707,670.784 { 50},Y_3710,ppm, .0015,.0001,3.735, .0015, .0016
Mg2790,279.079 {121},Y_3710,ppm, .0155,.0111,71.62, .0076, .0233
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0000,32.56, -.0001, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0003,.0004,151.6, .0006, .0000
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0002,78.17, .0001, .0004

```
Na5895,589.592 { 57},Y_3710,ppm, 1.333,.0279,2.094, 1.353, 1.313
Na8183,818.326 { 41},Y_3710,ppm, .3732,.0583,15.62, .3320, .4144
Ni2316,231.604 {445},In2306,ppm, .0000,.0000,107.0, .0000, .0000
P_1782,178.284 {489},In2306,ppm, -.0024,.0007,27.97, -.0029, -.0019
Pb2203,220.353 {453},In2306,ppm, .0004,.0004,103.8, .0001, .0007
S_1820,182.034 {485},Y_2243,ppm, -19.96,.6964,3.490, -20.45, -19.46
Sb2068,206.833 {463},Y_2243,ppm, -.0001,.0011,1947., -.0008, .0007
Se1960,196.090 {472},Y_2243,ppm, -.0012,.0013,113.2, -.0002, -.0021
Si2516,251.611 {134},Y_3710,ppm, .0015,.0015,104.5, .0004, .0026
Sn1899,189.989 {477},In2306,ppm, -.0002,.0004,197.4, .0001, -.0005
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,6.473, -.0001, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0006,.0003,53.36, -.0004, -.0008
Tl1908,190.856 {477},In2306,ppm, -.0009,.0005,53.35, -.0013, -.0006
V_2924,292.402 {115},Y_3600,ppm, .0004,.0002,56.65, .0002, .0005
Zn2062,206.200 {463},In2306,ppm, -.0002,.0000,18.91, -.0002, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 918.56,5.1951,.56557,922.24,914.89
In2306,230.606 {446},Cts/S, 17202.,71.455,.41539,17151.,17252.
Y_2243,224.306 {450},Cts/S, 24901.,96.850,.38894,24832.,24969.
Y_3600,360.073 { 94},Cts/S, 204390.,439.30,.21493,204080.,204700.
Y_3710,371.030 { 91},Cts/S, 50068.,89.225,.17821,50131.,50005.


[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=mb 600-91814/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:06:24
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0006,2042., .0005, -.0004
Al3082,308.215 {109},In2306,ppm, -.0149,.0085,57.19, -.0089, -.0209
As1890,189.042 {478},Y_2243,ppm, -.0021,.0007,33.77, -.0016, -.0026
B_2496,249.678 {135},Y_3710,ppm, -.0033,.0022,65.98, -.0018, -.0049
Ba4554,455.403 { 74},Y_3710,ppm, .0006,.0001,24.05, .0006, .0005
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,12.79, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0038,.0086,224.3, -.0022, .0099
Ca3181,318.128 {106},In2306,ppm, .0081,.0007,8.639, .0086, .0077
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,305.5, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0000,96.49, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0001,.0001,95.44, .0000, -.0002
Cu3247,324.754 {104},Y_3600,ppm, .0054,.0001,1.917, .0055, .0054
Fe2404,240.488 {140},In2306,ppm, .0007,.0016,212.8, -.0004, .0019
K_7664,766.490 { 44},Y_3710,ppm, .0476,.0272,57.17, .0668, .0283
K_7698,769.896 { 44},Y_3710,ppm, .1754,.0809,46.10, .1182, .2326
Li6707,670.784 { 50},Y_3710,ppm, .0012,.0001,5.728, .0012, .0013
Mg2790,279.079 {121},Y_3710,ppm, .0040,.0005,11.56, .0036, .0043
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0002,167.1, .0000, -.0002
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0003,.0002,81.80, -.0004, -.0001
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0006,179.2, .0007, -.0001
Na5895,589.592 { 57},Y_3710,ppm, .9746,.0092,.9485, .9811, .9681
Na8183,818.326 { 41},Y_3710,ppm, .3567,.0247,6.926, .3393, .3742
```

Ni2316,231.604 {445},In2306,ppm, .0001,.0000,29.56, .0001, .0001
P_1782,178.284 {489},In2306,ppm, -.0023,.0000,.5247, -.0023, -.0023
Pb2203,220.353 {453},In2306,ppm, .0003,.0005,159.4, .0006, .0000
S_1820,182.034 {485},Y_2243,ppm, -15.70,.3285,2.092, -15.93, -15.47
Sb2068,206.833 {463},Y_2243,ppm, -.0012,.0005,45.83, -.0015, -.0008
Se1960,196.090 {472},Y_2243,ppm, -.0004,.0005,134.6, .0000, -.0007
Si2516,251.611 {134},Y_3710,ppm, .0016,.0041,265.9, .0045, -.0014
Sn1899,189.989 {477},In2306,ppm, -.0009,.0000,3.616, -.0010, -.0009
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0001,62.26, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0004,.0000,1.269, -.0004, -.0004
Tl1908,190.856 {477},In2306,ppm, -.0008,.0005,59.05, -.0011, -.0005
V_2924,292.402 {115},Y_3600,ppm, .0002,.0001,35.45, .0003, .0002
Zn2062,206.200 {463},In2306,ppm, .0027,.0000,.9557, .0027, .0027

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 926.26,1.5218,.16430,925.19,927.34
In2306,230.606 {446},Cts/S, 17372.,154.72,.89064,17482.,17263.
Y_2243,224.306 {450},Cts/S, 25265.,181.75,.71936,25393.,25136.
Y_3600,360.073 { 94},Cts/S, 203240.,3650.4,1.7961,205820.,200660.
Y_3710,371.030 { 91},Cts/S, 50372.,157.73,.31313,50261.,50484.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=lcs 600-91814/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:08:46
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6308,.0019,.2959, .6321, .6295
Al3082,308.215 {109},In2306,ppm, 10.31,.6487,6.292, 9.851, 10.77
As1890,189.042 {478},Y_2243,ppm, 1.083,.0044,.4015, 1.080, 1.087
B_2496,249.678 {135},Y_3710,ppm, .9969,.0544,5.453, .9585, 1.035
Ba4554,455.403 { 74},Y_3710,ppm, 1.047,.0574,5.488, 1.006, 1.087
Be3130,313.042 {108},Y_3710,ppm, .5122,.0281,5.488, .4923, .5320
Ca3158,315.887 {107},In2306,ppm, 11.84,.7003,5.915, 11.34, 12.33
Ca3181,318.128 {106},In2306,ppm, 10.22,.6102,5.973, 9.785, 10.65
Cd2288,228.802 {447},Y_2243,ppm, .5223,.0025,.4726, .5205, .5240
Co2286,228.616 {447},In2306,ppm, .9405,.0029,.3069, .9384, .9425
Cr2677,267.716 {126},Y_3600,ppm, 1.037,.0052,.5012, 1.041, 1.033
Cu3247,324.754 {104},Y_3600,ppm, 1.087,.0000,.0010, 1.087, 1.087
Fe2404,240.488 {140},In2306,ppm, 10.44,.6462,6.189, 9.984, 10.90
K_7664,766.490 { 44},Y_3710,ppm, 10.18,.5287,5.194, 9.806, 10.55
K_7698,769.896 { 44},Y_3710,ppm, 10.43,.4957,4.751, 10.08, 10.78
Li6707,670.784 { 50},Y_3710,ppm, .5302,.0296,5.575, .5093, .5511
Mg2790,279.079 {121},Y_3710,ppm, 9.851,.5390,5.472, 9.470, 10.23
Mn2576,257.610 {131},Y_3600,ppm, 1.201,.0022,.1853, 1.202, 1.199
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.195,.0676,5.657, 1.147, 1.243
Mo2020,202.030 {467},Y_2243,ppm, 1.309,.0110,.8375, 1.302, 1.317
Na5895,589.592 { 57},Y_3710,ppm, 11.40,.6033,5.294, 10.97, 11.82
Na8183,818.326 { 41},Y_3710,ppm, 10.41,.3064,2.945, 10.19, 10.62
Ni2316,231.604 {445},In2306,ppm, .9928,.0035,.3537, .9903, .9953
P_1782,178.284 {489},In2306,ppm, -.0021,.0003,15.39, -.0023, -.0019
Pb2203,220.353 {453},In2306,ppm, .9732,.0053,.5407, .9695, .9770

S_1820,182.034 {485},Y_2243,ppm, -14.21,.4585,3.226, -14.54, -13.89
Sb2068,206.833 {463},Y_2243,ppm, 1.097,.0048,.4365, 1.093, 1.100
Se1960,196.090 {472},Y_2243,ppm, 1.125,.0053,.4675, 1.121, 1.129
Si2516,251.611 {134},Y_3710,ppm, 1.042,.0507,4.863, 1.006, 1.077
Sn1899,189.989 {477},In2306,ppm, 1.138,.0112,.9857, 1.130, 1.146
Sr4215,421.552 { 80},Y_3710,ppm, .5450,.0312,5.716, .5230, .5671
Ti3349,334.904 {101},Y_3600,ppm, .9843,.0078,.7910, .9898, .9788
Tl1908,190.856 {477},In2306,ppm, .9211,.0011,.1182, .9203, .9218
V_2924,292.402 {115},Y_3600,ppm, 1.098,.0032,.2886, 1.100, 1.096
Zn2062,206.200 {463},In2306,ppm, .9164,.0027,.2986, .9144, .9183

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 883.92,43.023,4.8673,914.34,853.49
In2306,230.606 {446},Cts/S, 15896.,73.010,.45928,15948.,15845.
Y_2243,224.306 {450},Cts/S, 24726.,138.39,.55968,24824.,24628.
Y_3600,360.073 { 94},Cts/S, 199140.,20.126,.01011,199150.,199130.
Y_3710,371.030 { 91},Cts/S, 49189.,2014.2,4.0947,50613.,47765.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=lb 600-91774/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:10:53
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0003,65.14, -.0007, -.0002
Al3082,308.215 {109},In2306,ppm, -.0160,.0195,122.2, -.0022, -.0298
As1890,189.042 {478},Y_2243,ppm, -.0006,.0001,9.234, -.0006, -.0007
B_2496,249.678 {135},Y_3710,ppm, .0001,.0035,5447., .0026, -.0024
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0000,14.43, .0002, .0002
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,36.57, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .9043,.0047,.5189, .9076, .9010
Ca3181,318.128 {106},In2306,ppm, .8069,.0098,1.208, .8000, .8138
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0006,123.7, .0001, .0010
Co2286,228.616 {447},In2306,ppm, .0009,.0015,156.6, -.0001, .0020
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0003,101.3, -.0001, -.0004
Cu3247,324.754 {104},Y_3600,ppm, .0071,.0001,1.165, .0071, .0072
Fe2404,240.488 {140},In2306,ppm, .0127,.0000,.0473, .0127, .0127
K_7664,766.490 { 44},Y_3710,ppm, .0819,.0115,14.10, .0901, .0738
K_7698,769.896 { 44},Y_3710,ppm, .1910,.0411,21.54, .1619, .2201
Li6707,670.784 { 50},Y_3710,ppm, .0008,.0001,10.14, .0009, .0007
Mg2790,279.079 {121},Y_3710,ppm, .0089,.0074,82.95, .0142, .0037
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0000,12.79, .0000, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0000,.0001,259.5, -.0001, .0000
Mo2020,202.030 {467},Y_2243,ppm, .0043,.0030,69.20, .0022, .0064
Na5895,589.592 { 57},Y_3710,ppm, 144.9,1.267,.8739, 144.1, 145.8
Na8183,818.326 { 41},Y_3710,ppm, 144.1,1.015,.7041, 143.4, 144.8
Ni2316,231.604 {445},In2306,ppm, .0010,.0014,146.9, .0000, .0020
P_1782,178.284 {489},In2306,ppm, .1727,.0019,1.080, .1740, .1713
Pb2203,220.353 {453},In2306,ppm, .0011,.0010,90.78, .0004, .0018
S_1820,182.034 {485},Y_2243,ppm, -13.87,.1127,.8126, -13.95, -13.79
Sb2068,206.833 {463},Y_2243,ppm, .0053,.0021,39.14, .0038, .0067
Se1960,196.090 {472},Y_2243,ppm, .0026,.0007,26.96, .0021, .0031

```
Si2516,251.611 {134},Y_3710,ppm, .0045,.0033,73.68, .0022, .0069
Sn1899,189.989 {477},In2306,ppm, .0014,.0027,196.7, -.0005, .0033
Sr4215,421.552 { 80},Y_3710,ppm, .0004,.0000,6.061, .0003, .0004
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0004,133.4, .0000, -.0006
Tl1908,190.856 {477},In2306,ppm, .0076,.0090,118.1, .0013, .0140
V_2924,292.402 {115},Y_3600,ppm, .0003,.0003,117.5, .0000, .0005
Zn2062,206.200 {463},In2306,ppm, .0046,.0011,23.43, .0038, .0054

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 900.79,4.4054,.48906,903.91,897.68
In2306,230.606 {446},Cts/S, 14829.,153.64,1.0361,14720.,14937.
Y_2243,224.306 {450},Cts/S, 23586.,227.70,.96539,23425.,23747.
Y_3600,360.073 { 94},Cts/S, 189490.,68.869,.03635,189440.,189540.
Y_3710,371.030 { 91},Cts/S, 49611.,122.38,.24669,49697.,49524.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63235-a-1-f
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:13:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0001,31.46, -.0003, -.0002
Al3082,308.215 {109},In2306,ppm, .0152,.0033,21.72, .0129, .0176
As1890,189.042 {478},Y_2243,ppm, .0016,.0020,124.0, .0002, .0030
B_2496,249.678 {135},Y_3710,ppm, .0047,.0012,26.08, .0038, .0056
Ba4554,455.403 { 74},Y_3710,ppm, .0012,.0000,2.452, .0012, .0012
Be3130,313.042 {108},Y_3710,ppm, -.0001,.0000,40.59, .0000, -.0001
Ca3158,315.887 {107},In2306,ppm, 2.620,.0398,1.521, 2.648, 2.591
Ca3181,318.128 {106},In2306,ppm, 2.252,.0296,1.313, 2.273, 2.231
Cd2288,228.802 {447},Y_2243,ppm, -.0003,.0000,14.53, -.0003, -.0003
Co2286,228.616 {447},In2306,ppm, -.0179,.0002,.8656, -.0180, -.0178
Cr2677,267.716 {126},Y_3600,ppm, -.0004,.0001,34.35, -.0003, -.0005
Cu3247,324.754 {104},Y_3600,ppm, .0073,.0007,9.482, .0068, .0078
Fe2404,240.488 {140},In2306,ppm, -.0296,.0007,2.446, -.0302, -.0291
K_7664,766.490 { 44},Y_3710,ppm, .1033,.0231,22.38, .1197, .0870
K_7698,769.896 { 44},Y_3710,ppm, .1847,.0339,18.33, .1608, .2087
Li6707,670.784 { 50},Y_3710,ppm, .0033,.0006,19.98, .0028, .0037
Mg2790,279.079 {121},Y_3710,ppm, .1385,.0073,5.241, .1436, .1334
Mn2576,257.610 {131},Y_3600,ppm, .0055,.0000,.1754, .0055, .0055
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0057,.0007,12.19, .0062, .0052
Mo2020,202.030 {467},Y_2243,ppm, .0047,.0004,8.328, .0044, .0050
Na5895,589.592 { 57},Y_3710,ppm, 150.6,.9999,.6641, 149.8, 151.3
Na8183,818.326 { 41},Y_3710,ppm, 148.1,1.175,.7933, 148.9, 147.3
Ni2316,231.604 {445},In2306,ppm, 68.82,.2971,.4316, 69.03, 68.61
P_1782,178.284 {489},In2306,ppm, .0018,.0006,35.68, .0013, .0022
Pb2203,220.353 {453},In2306,ppm, -.0058,.0008,13.62, -.0063, -.0052
S_1820,182.034 {485},Y_2243,ppm, -2038.,8.326,.4085, -2044., -2032.
Sb2068,206.833 {463},Y_2243,ppm, -.0028,.0000,.3280, -.0028, -.0028
Se1960,196.090 {472},Y_2243,ppm, -.0007,.0004,58.25, -.0010, -.0004
Si2516,251.611 {134},Y_3710,ppm, .0314,.0001,.2382, .0315, .0313
Sn1899,189.989 {477},In2306,ppm, -.0039,.0006,15.48, -.0035, -.0044
Sr4215,421.552 { 80},Y_3710,ppm, .0064,.0001,.8722, .0064, .0063
```

Ti3349,334.904 {101},Y_3600,ppm, -.0007,.0001,14.73, -.0008, -.0006
Tl1908,190.856 {477},In2306,ppm, -.0002,.0010,420.7, -.0010, .0005
V_2924,292.402 {115},Y_3600,ppm, .0004,.0002,43.86, .0003, .0006
Zn2062,206.200 {463},In2306,ppm, .0039,.0001,1.729, .0038, .0039

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 899.12,5.5294,.61497,895.21,903.03
In2306,230.606 {446},Cts/S, 14899.,21.937,.14724,14883.,14914.
Y_2243,224.306 {450},Cts/S, 23532.,28.089,.11937,23552.,23512.
Y_3600,360.073 { 94},Cts/S, 188820.,1583.3,.83849,189940.,187700.
Y_3710,371.030 { 91},Cts/S, 49789.,330.36,.66352,49555.,50022.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63235-a-1-g ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:15:52
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6578,.0013,.2031, .6568, .6587
Al3082,308.215 {109},In2306,ppm, 10.25,.0314,.3065, 10.23, 10.27
As1890,189.042 {478},Y_2243,ppm, 1.141,.0146,1.283, 1.131, 1.151
B_2496,249.678 {135},Y_3710,ppm, .9742,.0039,.4028, .9770, .9715
Ba4554,455.403 { 74},Y_3710,ppm, 1.021,.0058,.5681, 1.026, 1.017
Be3130,313.042 {108},Y_3710,ppm, .5079,.0035,.6818, .5104, .5055
Ca3158,315.887 {107},In2306,ppm, 14.44,.0278,.1928, 14.42, 14.46
Ca3181,318.128 {106},In2306,ppm, 12.31,.0865,.7024, 12.37, 12.25
Cd2288,228.802 {447},Y_2243,ppm, .5334,.0081,1.512, .5277, .5391
Co2286,228.616 {447},In2306,ppm, .9558,.0171,1.784, .9437, .9678
Cr2677,267.716 {126},Y_3600,ppm, 1.052,.0017,.1619, 1.053, 1.051
Cu3247,324.754 {104},Y_3600,ppm, 1.096,.0037,.3349, 1.099, 1.094
Fe2404,240.488 {140},In2306,ppm, 10.22,.0306,.2997, 10.24, 10.20
K_7664,766.490 { 44},Y_3710,ppm, 10.04,.0843,.8394, 10.10, 9.980
K_7698,769.896 { 44},Y_3710,ppm, 10.41,.1722,1.654, 10.53, 10.29
Li6707,670.784 { 50},Y_3710,ppm, .5215,.0026,.5048, .5233, .5196
Mg2790,279.079 {121},Y_3710,ppm, 9.758,.1091,1.118, 9.835, 9.681
Mn2576,257.610 {131},Y_3600,ppm, 1.247,.0057,.4551, 1.251, 1.243
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.198,.0104,.8642, 1.206, 1.191
Mo2020,202.030 {467},Y_2243,ppm, 1.326,.0150,1.131, 1.315, 1.336
Na5895,589.592 { 57},Y_3710,ppm, 160.6,1.115,.6939, 161.4, 159.9
Na8183,818.326 { 41},Y_3710,ppm, 157.2,.6995,.4449, 157.7, 156.7
Ni2316,231.604 {445},In2306,ppm, 70.52,1.211,1.717, 69.66, 71.37
P_1782,178.284 {489},In2306,ppm, .0016,.0006,36.72, .0012, .0020
Pb2203,220.353 {453},In2306,ppm, .9845,.0158,1.608, .9733, .9957
S_1820,182.034 {485},Y_2243,ppm, -2014.,25.43,1.262, -1996., -2032.
Sb2068,206.833 {463},Y_2243,ppm, 1.108,.0139,1.259, 1.098, 1.118
Se1960,196.090 {472},Y_2243,ppm, 1.194,.0128,1.072, 1.184, 1.203
Si2516,251.611 {134},Y_3710,ppm, 1.081,.0020,.1872, 1.080, 1.083
Sn1899,189.989 {477},In2306,ppm, 1.178,.0154,1.308, 1.167, 1.189
Sr4215,421.552 { 80},Y_3710,ppm, .5476,.0041,.7492, .5505, .5447
Ti3349,334.904 {101},Y_3600,ppm, .9941,.0035,.3540, .9966, .9916
Tl1908,190.856 {477},In2306,ppm, .8936,.0127,1.423, .8846, .9026
V_2924,292.402 {115},Y_3600,ppm, 1.132,.0007,.0648, 1.133, 1.132

Zn2062,206.200 {463},In2306,ppm, .9850,.0179,1.821, .9723, .9976

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 884.75,3.2331,.36542,887.04,882.47
In2306,230.606 {446},Cts/S, 14476.,185.16,1.2790,14607.,14345.
Y_2243,224.306 {450},Cts/S, 23697.,233.49,.98533,23862.,23531.
Y_3600,360.073 { 94},Cts/S, 188340.,71.689,.03806,188290.,188390.
Y_3710,371.030 { 91},Cts/S, 49857.,149.11,.29907,49751.,49962.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63022-a-2-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:18:09
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0016,974.3, .0010, -.0013
Al3082,308.215 {109},In2306,ppm, -.0231,.0055,24.03, -.0270, -.0192
As1890,189.042 {478},Y_2243,ppm, -.0006,.0004,62.91, -.0008, -.0003
B_2496,249.678 {135},Y_3710,ppm, .0037,.0032,86.83, .0060, .0014
Ba4554,455.403 { 74},Y_3710,ppm, .0009,.0000,4.558, .0010, .0009
Be3130,313.042 {108},Y_3710,ppm, .0000,.0001,394.0, .0001, .0000
Ca3158,315.887 {107},In2306,ppm, 1.040,.0035,.3379, 1.037, 1.042
Ca3181,318.128 {106},In2306,ppm, .9004,.0152,1.692, .8896, .9112
Cd2288,228.802 {447},Y_2243,ppm, .0004,.0005,109.9, .0001, .0007
Co2286,228.616 {447},In2306,ppm, .0018,.0009,52.42, .0011, .0025
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0000,2.893, .0010, .0010
Cu3247,324.754 {104},Y_3600,ppm, .0065,.0003,4.679, .0063, .0067
Fe2404,240.488 {140},In2306,ppm, 17.30,.0034,.0197, 17.30, 17.30
K_7664,766.490 { 44},Y_3710,ppm, .0864,.0014,1.615, .0854, .0874
K_7698,769.896 { 44},Y_3710,ppm, .2812,.0042,1.492, .2782, .2842
Li6707,670.784 { 50},Y_3710,ppm, .0013,.0005,38.05, .0017, .0010
Mg2790,279.079 {121},Y_3710,ppm, .0173,.0188,108.7, .0040, .0305
Mn2576,257.610 {131},Y_3600,ppm, .1788,.0036,2.002, .1763, .1813
Mn2576-2,257.610 {131}2,Y_3710,ppm, .1723,.0005,.3132, .1720, .1727
Mo2020,202.030 {467},Y_2243,ppm, .0069,.0015,22.43, .0058, .0079
Na5895,589.592 { 57},Y_3710,ppm, 139.4,.5986,.4293, 139.8, 139.0
Na8183,818.326 { 41},Y_3710,ppm, 139.4,.2513,.1803, 139.6, 139.2
Ni2316,231.604 {445},In2306,ppm, .0708,.0752,106.2, .0176, .1239
P_1782,178.284 {489},In2306,ppm, .1265,.0003,.2759, .1267, .1262
Pb2203,220.353 {453},In2306,ppm, .0013,.0005,41.90, .0017, .0009
S_1820,182.034 {485},Y_2243,ppm, -13.42,.9758,7.270, -12.73, -14.11
Sb2068,206.833 {463},Y_2243,ppm, .0011,.0016,148.2, -.0001, .0022
Se1960,196.090 {472},Y_2243,ppm, .0009,.0016,166.3, -.0002, .0020
Si2516,251.611 {134},Y_3710,ppm, .1090,.0002,.1729, .1089, .1092
Sn1899,189.989 {477},In2306,ppm, .0005,.0029,565.0, -.0015, .0025
Sr4215,421.552 { 80},Y_3710,ppm, .0004,.0001,13.26, .0005, .0004
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0003,105.5, -.0001, -.0006
Tl1908,190.856 {477},In2306,ppm, .0056,.0071,127.0, .0006, .0106
V_2924,292.402 {115},Y_3600,ppm, .0008,.0002,23.41, .0010, .0007
Zn2062,206.200 {463},In2306,ppm, 17.35,.0108,.0622, 17.35, 17.36

[Internal Standards]

```
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 896.82,2.2851,.25480,895.20,898.44
In2306,230.606 {446},Cts/S, 14931.,17.851,.11956,14943.,14918.
Y_2243,224.306 {450},Cts/S, 23770.,54.424,.22897,23808.,23731.
Y_3600,360.073 { 94},Cts/S, 189920.,1561.5,.82220,191030.,188820.
Y_3710,371.030 { 91},Cts/S, 49391.,159.30,.32252,49278.,49503.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63022-a-2-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:20:35
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6452,.0027,.4130, .6471, .6433
Al3082,308.215 {109},In2306,ppm, 9.970,.1587,1.592, 10.08, 9.858
As1890,189.042 {478},Y_2243,ppm, 1.111,.0084,.7595, 1.105, 1.117
B_2496,249.678 {135},Y_3710,ppm, .9813,.0044,.4491, .9844, .9782
Ba4554,455.403 { 74},Y_3710,ppm, 1.016,.0063,.6162, 1.020, 1.011
Be3130,313.042 {108},Y_3710,ppm, .5033,.0044,.8669, .5064, .5002
Ca3158,315.887 {107},In2306,ppm, 12.73,.0494,.3879, 12.69, 12.76
Ca3181,318.128 {106},In2306,ppm, 10.88,.0553,.5081, 10.92, 10.84
Cd2288,228.802 {447},Y_2243,ppm, .5255,.0059,1.115, .5214, .5297
Co2286,228.616 {447},In2306,ppm, .9627,.0092,.9566, .9561, .9692
Cr2677,267.716 {126},Y_3600,ppm, 1.031,.0029,.2828, 1.029, 1.033
Cu3247,324.754 {104},Y_3600,ppm, 1.073,.0005,.0440, 1.072, 1.073
Fe2404,240.488 {140},In2306,ppm, 27.69,.0947,.3420, 27.76, 27.63
K_7664,766.490 { 44},Y_3710,ppm, 10.00,.1018,1.017, 10.07, 9.929
K_7698,769.896 { 44},Y_3710,ppm, 10.43,.0271,.2600, 10.45, 10.41
Li6707,670.784 { 50},Y_3710,ppm, .5149,.0065,1.261, .5195, .5103
Mg2790,279.079 {121},Y_3710,ppm, 9.579,.0857,.8944, 9.640, 9.519
Mn2576,257.610 {131},Y_3600,ppm, 1.379,.0004,.0288, 1.380, 1.379
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.355,.0090,.6672, 1.361, 1.349
Mo2020,202.030 {467},Y_2243,ppm, 1.319,.0136,1.033, 1.310, 1.329
Na5895,589.592 { 57},Y_3710,ppm, 154.4,.8430,.5462, 155.0, 153.8
Na8183,818.326 { 41},Y_3710,ppm, 152.0,.3538,.2328, 152.2, 151.7
Ni2316,231.604 {445},In2306,ppm, 1.038,.0119,1.151, 1.030, 1.047
P_1782,178.284 {489},In2306,ppm, .1305,.0013,1.018, .1295, .1314
Pb2203,220.353 {453},In2306,ppm, .9792,.0088,.9013, .9729, .9854
S_1820,182.034 {485},Y_2243,ppm, -11.86,.1658,1.398, -11.74, -11.98
Sb2068,206.833 {463},Y_2243,ppm, 1.078,.0091,.8425, 1.072, 1.085
Se1960,196.090 {472},Y_2243,ppm, 1.158,.0134,1.157, 1.149, 1.168
Si2516,251.611 {134},Y_3710,ppm, 1.170,.0003,.0233, 1.170, 1.171
Sn1899,189.989 {477},In2306,ppm, 1.177,.0067,.5695, 1.172, 1.182
Sr4215,421.552 { 80},Y_3710,ppm, .5332,.0049,.9176, .5367, .5297
Ti3349,334.904 {101},Y_3600,ppm, .9852,.0020,.2021, .9838, .9867
Tl1908,190.856 {477},In2306,ppm, .8865,.0064,.7207, .8819, .8910
V_2924,292.402 {115},Y_3600,ppm, 1.108,.0013,.1217, 1.107, 1.108
Zn2062,206.200 {463},In2306,ppm, 18.63,.1868,1.003, 18.50, 18.76

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 886.01,2.8594,.32273,883.99,888.03
In2306,230.606 {446},Cts/S, 14440.,124.01,.85877,14528.,14353.
```

Y_2243,224.306 {450},Cts/S, 23680.,227.22,.95957,23841.,23519.
Y_3600,360.073 { 94},Cts/S, 188960.,204.90,.10843,189110.,188820.
Y_3710,371.030 { 91},Cts/S, 49086.,206.89,.42148,48940.,49233.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=lb 600-91777/1-b
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:22:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0003,.0007,211.3, .0008, -.0002
Al3082,308.215 {109},In2306,ppm, -.0104,.0029,27.85, -.0083, -.0124
As1890,189.042 {478},Y_2243,ppm, -.0009,.0009,97.99, -.0015, -.0003
B_2496,249.678 {135},Y_3710,ppm, .0017,.0009,53.16, .0011, .0024
Ba4554,455.403 { 74},Y_3710,ppm, .0021,.0001,2.947, .0021, .0020
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,33.85, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0010,.0096,931.5, -.0057, .0078
Ca3181,318.128 {106},In2306,ppm, .0274,.0070,25.45, .0225, .0324
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0007,135.3, .0000, .0010
Co2286,228.616 {447},In2306,ppm, .0008,.0012,147.1, .0000, .0017
Cr2677,267.716 {126},Y_3600,ppm, -.0002,.0003,169.6, .0000, -.0004
Cu3247,324.754 {104},Y_3600,ppm, .0049,.0001,2.955, .0050, .0048
Fe2404,240.488 {140},In2306,ppm, .0096,.0041,42.63, .0124, .0067
K_7664,766.490 { 44},Y_3710,ppm, .0607,.0143,23.51, .0506, .0708
K_7698,769.896 { 44},Y_3710,ppm, .1595,.0499,31.27, .1242, .1947
Li6707,670.784 { 50},Y_3710,ppm, .0007,.0007,103.4, .0012, .0002
Mg2790,279.079 {121},Y_3710,ppm, .0017,.0055,330.9, -.0022, .0055
Mn2576,257.610 {131},Y_3600,ppm, .0005,.0000,1.943, .0005, .0005
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0010,.0008,86.46, .0004, .0016
Mo2020,202.030 {467},Y_2243,ppm, .0042,.0028,66.24, .0023, .0062
Na5895,589.592 { 57},Y_3710,ppm, .5180,.0093,1.797, .5246, .5114
Na8183,818.326 { 41},Y_3710,ppm, .2738,.0670,24.47, .2264, .3211
Ni2316,231.604 {445},In2306,ppm, .0010,.0014,137.9, .0000, .0021
P_1782,178.284 {489},In2306,ppm, .0035,.0005,14.55, .0038, .0031
Pb2203,220.353 {453},In2306,ppm, .0012,.0001,11.18, .0011, .0013
S_1820,182.034 {485},Y_2243,ppm, -9.194,.0290,.3153, -9.214, -9.173
Sb2068,206.833 {463},Y_2243,ppm, .0065,.0021,33.09, .0050, .0080
Se1960,196.090 {472},Y_2243,ppm, .0017,.0008,48.16, .0011, .0022
Si2516,251.611 {134},Y_3710,ppm, .0037,.0062,166.3, .0081, -.0007
Sn1899,189.989 {477},In2306,ppm, .0015,.0028,186.8, -.0005, .0035
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,12.78, .0000, .0000
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0002,115.2, .0000, -.0004
Tl1908,190.856 {477},In2306,ppm, .0071,.0084,118.4, .0012, .0131
V_2924,292.402 {115},Y_3600,ppm, .0004,.0001,33.83, .0003, .0005
Zn2062,206.200 {463},In2306,ppm, .0199,.0216,109.1, .0045, .0352

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 938.28,8.0283,.85564,932.61,943.96
In2306,230.606 {446},Cts/S, 17408.,10.695,.06144,17400.,17416.
Y_2243,224.306 {450},Cts/S, 25083.,58.333,.23256,25042.,25124.
Y_3600,360.073 { 94},Cts/S, 201970.,4971.4,2.4614,205490.,198460.
Y_3710,371.030 { 91},Cts/S, 51033.,227.45,.44568,50872.,51194.

```
[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63246-a-1-f
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:25:10
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0009,.0000,3.331, -.0009, -.0008
Al3082,308.215 {109},In2306,ppm, -.0047,.0078,163.6, .0007, -.0102
As1890,189.042 {478},Y_2243,ppm, -.0017,.0001,7.089, -.0016, -.0018
B_2496,249.678 {135},Y_3710,ppm, .0143,.0006,4.416, .0147, .0139
Ba4554,455.403 { 74},Y_3710,ppm, .0524,.0003,.5693, .0522, .0526
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,23.85, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 228.8,.4364,.1908, 228.4, 229.1
Ca3181,318.128 {106},In2306,ppm, 195.7,1.495,.7636, 194.7, 196.8
Cd2288,228.802 {447},Y_2243,ppm, .0001,.0000,14.99, .0001, .0001
Co2286,228.616 {447},In2306,ppm, .0016,.0000,1.551, .0016, .0016
Cr2677,267.716 {126},Y_3600,ppm, .0010,.0000,3.542, .0011, .0010
Cu3247,324.754 {104},Y_3600,ppm, .0055,.0003,4.951, .0053, .0057
Fe2404,240.488 {140},In2306,ppm, .1099,.0003,.2951, .1096, .1101
K_7664,766.490 { 44},Y_3710,ppm, .1826,.0089,4.847, .1889, .1764
K_7698,769.896 { 44},Y_3710,ppm, .3376,.0080,2.376, .3319, .3433
Li6707,670.784 { 50},Y_3710,ppm, .0064,.0007,11.77, .0058, .0069
Mg2790,279.079 {121},Y_3710,ppm, 2.648,.0166,.6259, 2.636, 2.659
Mn2576,257.610 {131},Y_3600,ppm, .8329,.0011,.1296, .8337, .8322
Mn2576-2,257.610 {131}2,Y_3710,ppm, .8094,.0077,.9527, .8040, .8149
Mo2020,202.030 {467},Y_2243,ppm, .0038,.0002,3.996, .0037, .0039
Na5895,589.592 { 57},Y_3710,ppm, 4.730,.0317,.6706, 4.708, 4.753
Na8183,818.326 { 41},Y_3710,ppm, 4.127,.0547,1.325, 4.166, 4.089
Ni2316,231.604 {445},In2306,ppm, .0062,.0000,.7417, .0061, .0062
P_1782,178.284 {489},In2306,ppm, .0018,.0004,22.36, .0015, .0021
Pb2203,220.353 {453},In2306,ppm, -.0008,.0004,51.43, -.0005, -.0011
S_1820,182.034 {485},Y_2243,ppm, -717.4,3.599,.5016, -714.9, -720.0
Sb2068,206.833 {463},Y_2243,ppm, -.0010,.0004,44.88, -.0007, -.0013
Se1960,196.090 {472},Y_2243,ppm, -.0018,.0009,49.03, -.0012, -.0024
Si2516,251.611 {134},Y_3710,ppm, 1.223,.0035,.2853, 1.220, 1.225
Sn1899,189.989 {477},In2306,ppm, -.0009,.0006,67.04, -.0014, -.0005
Sr4215,421.552 { 80},Y_3710,ppm, .1540,.0011,.6884, .1533, .1548
Ti3349,334.904 {101},Y_3600,ppm, .0013,.0000,3.539, .0013, .0014
Tl1908,190.856 {477},In2306,ppm, -.0005,.0013,272.1, -.0014, .0004
V_2924,292.402 {115},Y_3600,ppm, .0031,.0000,.8570, .0031, .0031
Zn2062,206.200 {463},In2306,ppm, .0284,.0003,1.225, .0282, .0287

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 888.05,4.4798,.50446,891.22,884.88
In2306,230.606 {446},Cts/S, 14656.,61.837,.42192,14700.,14612.
Y_2243,224.306 {450},Cts/S, 23218.,77.767,.33495,23273.,23163.
Y_3600,360.073 { 94},Cts/S, 188820.,1092.6,.57864,188050.,189590.
Y_3710,371.030 { 91},Cts/S, 49460.,384.03,.77646,49731.,49188.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
```

SampleName=PDS 600-63235-a-1-f
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:27:28
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6148,.0018,.2893, .6135, .6160
Al3082,308.215 {109},In2306,ppm, 9.553,.0148,.1547, 9.543, 9.563
As1890,189.042 {478},Y_2243,ppm, 1.055,.0007,.0676, 1.055, 1.054
B_2496,249.678 {135},Y_3710,ppm, .9212,.0126,1.363, .9300, .9123
Ba4554,455.403 { 74},Y_3710,ppm, .9638,.0027,.2799, .9657, .9619
Be3130,313.042 {108},Y_3710,ppm, .4748,.0030,.6339, .4769, .4727
Ca3158,315.887 {107},In2306,ppm, 13.73,.0002,.0017, 13.73, 13.73
Ca3181,318.128 {106},In2306,ppm, 11.74,.0198,.1684, 11.72, 11.75
Cd2288,228.802 {447},Y_2243,ppm, .4970,.0017,.3345, .4958, .4982
Co2286,228.616 {447},In2306,ppm, .9004,.0042,.4640, .8975, .9034
Cr2677,267.716 {126},Y_3600,ppm, .9868,.0019,.1971, .9882, .9854
Cu3247,324.754 {104},Y_3600,ppm, 1.027,.0030,.2934, 1.025, 1.030
Fe2404,240.488 {140},In2306,ppm, 9.628,.0216,.2239, 9.613, 9.643
K_7664,766.490 { 44},Y_3710,ppm, 9.476,.0356,.3759, 9.501, 9.451
K_7698,769.896 { 44},Y_3710,ppm, 9.775,.0313,.3202, 9.797, 9.753
Li6707,670.784 { 50},Y_3710,ppm, .4886,.0015,.3024, .4897, .4876
Mg2790,279.079 {121},Y_3710,ppm, 9.053,.0663,.7318, 9.100, 9.007
Mn2576,257.610 {131},Y_3600,ppm, 1.146,.0020,.1701, 1.145, 1.148
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.111,.0077,.6944, 1.117, 1.106
Mo2020,202.030 {467},Y_2243,ppm, 1.214,.0059,.4831, 1.218, 1.210
Na5895,589.592 { 57},Y_3710,ppm, 158.2,1.816,1.148, 159.5, 156.9
Na8183,818.326 { 41},Y_3710,ppm, 157.0,.5528,.3521, 157.4, 156.6
Ni2316,231.604 {445},In2306,ppm, 69.31,.0059,.0086, 69.31, 69.30
P_1782,178.284 {489},In2306,ppm, .0019,.0005,24.37, .0015, .0022
Pb2203,220.353 {453},In2306,ppm, .9195,.0046,.4966, .9162, .9227
S_1820,182.034 {485},Y_2243,ppm, -1958.,1.477,.0754, -1957., -1959.
Sb2068,206.833 {463},Y_2243,ppm, 1.029,.0006,.0624, 1.029, 1.028
Se1960,196.090 {472},Y_2243,ppm, 1.097,.0019,.1743, 1.095, 1.098
Si2516,251.611 {134},Y_3710,ppm, 1.006,.0010,.0945, 1.007, 1.006
Sn1899,189.989 {477},In2306,ppm, 1.086,.0030,.2767, 1.088, 1.084
Sr4215,421.552 { 80},Y_3710,ppm, .5081,.0019,.3718, .5094, .5068
Ti3349,334.904 {101},Y_3600,ppm, .9335,.0029,.3160, .9356, .9314
Tl1908,190.856 {477},In2306,ppm, .8497,.0026,.3091, .8479, .8516
V_2924,292.402 {115},Y_3600,ppm, 1.058,.0003,.0260, 1.058, 1.059
Zn2062,206.200 {463},In2306,ppm, .9266,.0043,.4659, .9236, .9297

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 887.15,1.9394,.21861,885.77,888.52
In2306,230.606 {446},Cts/S, 14465.,49.039,.33901,14500.,14431.
Y_2243,224.306 {450},Cts/S, 23860.,36.003,.15089,23886.,23835.
Y_3600,360.073 { 94},Cts/S, 188270.,67.397,.03580,188230.,188320.
Y_3710,371.030 { 91},Cts/S, 49606.,552.42,1.1136,49215.,49996.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=

Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:29:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2968,.0026,.8882, .2950, .2987
Al3082,308.215 {109},In2306,ppm, 2.450,.1399,5.711, 2.351, 2.549
As1890,189.042 {478},Y_2243,ppm, .5122,.0034,.6652, .5146, .5098
B_2496,249.678 {135},Y_3710,ppm, .4861,.0269,5.543, .4670, .5051
Ba4554,455.403 { 74},Y_3710,ppm, .4998,.0261,5.216, .4813, .5182
Be3130,313.042 {108},Y_3710,ppm, .4927,.0257,5.219, .4746, .5109
Ca3158,315.887 {107},In2306,ppm, 14.26,.8016,5.621, 13.69, 14.83
Ca3181,318.128 {106},In2306,ppm, 12.40,.7628,6.150, 11.86, 12.94
Cd2288,228.802 {447},Y_2243,ppm, .4957,.0013,.2577, .4966, .4948
Co2286,228.616 {447},In2306,ppm, .4438,.0027,.6003, .4456, .4419
Cr2677,267.716 {126},Y_3600,ppm, .4985,.0012,.2442, .4976, .4994
Cu3247,324.754 {104},Y_3600,ppm, .5121,.0002,.0345, .5120, .5122
Fe2404,240.488 {140},In2306,ppm, 2.520,.1597,6.337, 2.407, 2.633
K_7664,766.490 { 44},Y_3710,ppm, 12.18,.6646,5.457, 11.71, 12.65
K_7698,769.896 { 44},Y_3710,ppm, 12.48,.7427,5.950, 11.96, 13.01
Li6707,670.784 { 50},Y_3710,ppm, .5102,.0250,4.910, .4925, .5279
Mg2790,279.079 {121},Y_3710,ppm, 4.793,.3162,6.598, 4.569, 5.016
Mn2576,257.610 {131},Y_3600,ppm, .5693,.0010,.1756, .5686, .5700
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5771,.0303,5.256, .5557, .5986
Mo2020,202.030 {467},Y_2243,ppm, .6210,.0026,.4247, .6229, .6192
Na5895,589.592 { 57},Y_3710,ppm, 12.94,.6749,5.215, 12.46, 13.42
Na8183,818.326 { 41},Y_3710,ppm, 12.31,.6345,5.153, 11.87, 12.76
Ni2316,231.604 {445},In2306,ppm, .4766,.0042,.8813, .4736, .4796
P_1782,178.284 {489},In2306,ppm, .4562,.0010,.2089, .4568, .4555
Pb2203,220.353 {453},In2306,ppm, .4610,.0031,.6714, .4632, .4588
S_1820,182.034 {485},Y_2243,ppm, -190.6,1.203,.6311, -191.4, -189.7
Sb2068,206.833 {463},Y_2243,ppm, .5234,.0005,.0988, .5238, .5230
Se1960,196.090 {472},Y_2243,ppm, .5326,.0011,.2124, .5318, .5334
Si2516,251.611 {134},Y_3710,ppm, 1.012,.0567,5.602, .9715, 1.052
Sn1899,189.989 {477},In2306,ppm, .5437,.0012,.2232, .5446, .5428
Sr4215,421.552 { 80},Y_3710,ppm, .2594,.0127,4.893, .2504, .2684
Ti3349,334.904 {101},Y_3600,ppm, .4721,.0020,.4213, .4707, .4735
Tl1908,190.856 {477},In2306,ppm, .4361,.0043,.9766, .4391, .4330
V_2924,292.402 {115},Y_3600,ppm, .5259,.0022,.4142, .5244, .5275
Zn2062,206.200 {463},In2306,ppm, .4381,.0032,.7254, .4403, .4358

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 869.98,45.603,5.2418,902.23,837.74
In2306,230.606 {446},Cts/S, 16034.,50.133,.31267,15998.,16069.
Y_2243,224.306 {450},Cts/S, 24722.,16.685,.06749,24710.,24734.
Y_3600,360.073 { 94},Cts/S, 198720.,682.96,.34367,199210.,198240.
Y_3710,371.030 { 91},Cts/S, 48016.,2242.3,4.6698,49601.,46430.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=

Run Time=10/25/2012 11:31:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0052,.0002,4.350, .0053, .0050
Al3082,308.215 {109},In2306,ppm, .0696,.0071,10.17, .0746, .0646
As1890,189.042 {478},Y_2243,ppm, .0089,.0004,4.092, .0086, .0091
B_2496,249.678 {135},Y_3710,ppm, .0055,.0022,40.55, .0040, .0071
Ba4554,455.403 { 74},Y_3710,ppm, .0098,.0001,.9647, .0097, .0099
Be3130,313.042 {108},Y_3710,ppm, .0049,.0000,.2704, .0049, .0049
Ca3158,315.887 {107},In2306,ppm, .1243,.0047,3.763, .1210, .1276
Ca3181,318.128 {106},In2306,ppm, .0927,.0055,5.905, .0966, .0888
Cd2288,228.802 {447},Y_2243,ppm, .0051,.0001,2.792, .0050, .0052
Co2286,228.616 {447},In2306,ppm, .0089,.0001,1.636, .0088, .0090
Cr2677,267.716 {126},Y_3600,ppm, .0097,.0002,2.072, .0098, .0095
Cu3247,324.754 {104},Y_3600,ppm, .0151,.0006,4.206, .0146, .0155
Fe2404,240.488 {140},In2306,ppm, .0971,.0003,.3211, .0974, .0969
K_7664,766.490 { 44},Y_3710,ppm, .5964,.0289,4.848, .6169, .5760
K_7698,769.896 { 44},Y_3710,ppm, .7169,.0156,2.182, .7279, .7058
Li6707,670.784 { 50},Y_3710,ppm, .0052,.0010,19.50, .0059, .0045
Mg2790,279.079 {121},Y_3710,ppm, .0951,.0064,6.774, .0997, .0906
Mn2576,257.610 {131},Y_3600,ppm, .0115,.0000,.0162, .0115, .0115
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0119,.0003,2.867, .0122, .0117
Mo2020,202.030 {467},Y_2243,ppm, .0140,.0009,6.360, .0134, .0146
Na5895,589.592 { 57},Y_3710,ppm, .9268,.0009,.0985, .9261, .9274
Na8183,818.326 { 41},Y_3710,ppm, .7157,.1890,26.41, .5820, .8493
Ni2316,231.604 {445},In2306,ppm, .0096,.0004,4.371, .0093, .0099
P_1782,178.284 {489},In2306,ppm, -.0020,.0002,12.71, -.0021, -.0018
Pb2203,220.353 {453},In2306,ppm, .0101,.0001,.7111, .0100, .0102
S_1820,182.034 {485},Y_2243,ppm, -6.038,.2053,3.400, -6.184, -5.893
Sb2068,206.833 {463},Y_2243,ppm, .0128,.0019,15.05, .0114, .0141
Se1960,196.090 {472},Y_2243,ppm, .0101,.0002,2.380, .0102, .0099
Si2516,251.611 {134},Y_3710,ppm, .0113,.0013,11.12, .0104, .0122
Sn1899,189.989 {477},In2306,ppm, .0103,.0008,8.195, .0097, .0108
Sr4215,421.552 { 80},Y_3710,ppm, .0052,.0001,1.033, .0051, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0092,.0002,2.268, .0094, .0091
Tl1908,190.856 {477},In2306,ppm, .0116,.0040,34.30, .0088, .0144
V_2924,292.402 {115},Y_3600,ppm, .0108,.0002,2.244, .0106, .0110
Zn2062,206.200 {463},In2306,ppm, .0089,.0001,1.379, .0089, .0090

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 924.73,11.893,1.2861,916.32,933.14
In2306,230.606 {446},Cts/S, 17274.,4.8386,.02801,17271.,17277.
Y_2243,224.306 {450},Cts/S, 25348.,64.641,.25502,25302.,25394.
Y_3600,360.073 { 94},Cts/S, 205000.,721.40,.35190,205510.,204490.
Y_3710,371.030 { 91},Cts/S, 49713.,290.86,.58509,49507.,49918.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:34:16
Sample Type=Unk
Mode=CONC

CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0002,.0010,548.1, .0009, -.0005
Al3082,308.215 {109},In2306,ppm, -.0247,.0065,26.35, -.0294, -.0201
As1890,189.042 {478},Y_2243,ppm, -.0014,.0005,36.08, -.0010, -.0017
B_2496,249.678 {135},Y_3710,ppm, -.0016,.0011,68.47, -.0024, -.0008
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,614.6, .0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,.9283, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0008,.0050,606.7, .0044, -.0027
Ca3181,318.128 {106},In2306,ppm, .0068,.0171,250.3, .0189, -.0053
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,25.90, -.0001, -.0001
Co2286,228.616 {447},In2306,ppm, .0000,.0001,175.6, .0001, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0001,16.12, -.0003, -.0003
Cu3247,324.754 {104},Y_3600,ppm, .0043,.0000,1.140, .0043, .0042
Fe2404,240.488 {140},In2306,ppm, -.0014,.0010,74.27, -.0021, -.0006
K_7664,766.490 { 44},Y_3710,ppm, .0109,.0060,55.10, .0066, .0151
K_7698,769.896 { 44},Y_3710,ppm, .0993,.0745,75.09, .0466, .1520
Li6707,670.784 { 50},Y_3710,ppm, .0007,.0009,136.8, .0013, .0000
Mg2790,279.079 {121},Y_3710,ppm, .0074,.0096,129.6, .0006, .0142
Mn2576,257.610 {131},Y_3600,ppm, -.0001,.0001,124.9, -.0001, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0003,.0007,218.0, .0002, -.0009
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0002,159.2, .0000, .0003
Na5895,589.592 { 57},Y_3710,ppm, .3138,.0022,.6893, .3154, .3123
Na8183,818.326 { 41},Y_3710,ppm, .1782,.0659,37.01, .2248, .1316
Ni2316,231.604 {445},In2306,ppm, .0000,.0001,318.5, .0000, -.0001
P_1782,178.284 {489},In2306,ppm, -.0016,.0002,9.835, -.0015, -.0018
Pb2203,220.353 {453},In2306,ppm, .0005,.0004,77.99, .0002, .0008
S_1820,182.034 {485},Y_2243,ppm, -6.068,.0799,1.317, -6.011, -6.124
Sb2068,206.833 {463},Y_2243,ppm, .0000,.0006,1353., .0005, -.0004
Se1960,196.090 {472},Y_2243,ppm, -.0005,.0008,143.7, .0000, -.0011
Si2516,251.611 {134},Y_3710,ppm, .0050,.0006,11.47, .0046, .0055
Sn1899,189.989 {477},In2306,ppm, -.0021,.0002,11.52, -.0022, -.0019
Sr4215,421.552 { 80},Y_3710,ppm, -.0001,.0000,74.43, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0001,37.49, -.0004, -.0002
Tl1908,190.856 {477},In2306,ppm, -.0002,.0001,54.35, -.0003, -.0001
V_2924,292.402 {115},Y_3600,ppm, .0005,.0001,25.34, .0006, .0004
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,11.86, -.0001, -.0001

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 921.93,1.0269,.11138,921.21,922.66
In2306,230.606 {446},Cts/S, 17333.,80.481,.46433,17276.,17390.
Y_2243,224.306 {450},Cts/S, 25182.,128.44,.51006,25091.,25273.
Y_3600,360.073 { 94},Cts/S, 204560.,955.48,.46709,203880.,205230.
Y_3710,371.030 { 91},Cts/S, 49564.,60.721,.12251,49607.,49521.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=SD 600-63235-a-1-f@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:36:39
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0006,.0015,236.0, .0004, -.0016
Al3082,308.215 {109},In2306,ppm, -.0077,.0059,75.73, -.0119, -.0036
As1890,189.042 {478},Y_2243,ppm, -.0012,.0009,76.10, -.0018, -.0006
B_2496,249.678 {135},Y_3710,ppm, -.0008,.0001,11.98, -.0008, -.0009
Ba4554,455.403 { 74},Y_3710,ppm, .0002,.0001,40.50, .0002, .0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,21.39, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .5543,.0017,.2999, .5531, .5555
Ca3181,318.128 {106},In2306,ppm, .4685,.0021,.4547, .4670, .4700
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,31.74, -.0001, -.0001
Co2286,228.616 {447},In2306,ppm, -.0037,.0001,2.559, -.0036, -.0037
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0001,50.26, -.0002, -.0004
Cu3247,324.754 {104},Y_3600,ppm, .0062,.0001,.8560, .0062, .0063
Fe2404,240.488 {140},In2306,ppm, -.0077,.0037,47.83, -.0103, -.0051
K_7664,766.490 { 44},Y_3710,ppm, .0199,.0049,24.82, .0164, .0233
K_7698,769.896 { 44},Y_3710,ppm, .1257,.0134,10.64, .1351, .1162
Li6707,670.784 { 50},Y_3710,ppm, .0012,.0001,11.08, .0012, .0011
Mg2790,279.079 {121},Y_3710,ppm, .0426,.0141,33.02, .0326, .0525
Mn2576,257.610 {131},Y_3600,ppm, .0012,.0002,12.79, .0013, .0011
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0017,.0000,.3082, .0017, .0017
Mo2020,202.030 {467},Y_2243,ppm, .0005,.0001,21.95, .0004, .0006
Na5895,589.592 { 57},Y_3710,ppm, 30.00,.1864,.6213, 29.87, 30.13
Na8183,818.326 { 41},Y_3710,ppm, 29.15,.0698,.2395, 29.10, 29.20
Ni2316,231.604 {445},In2306,ppm, 13.93,.0051,.0367, 13.92, 13.93
P_1782,178.284 {489},In2306,ppm, -.0015,.0006,41.97, -.0020, -.0011
Pb2203,220.353 {453},In2306,ppm, -.0009,.0003,37.70, -.0006, -.0011
S_1820,182.034 {485},Y_2243,ppm, -394.5,.4512,.1144, -394.1, -394.8
Sb2068,206.833 {463},Y_2243,ppm, -.0025,.0001,3.157, -.0026, -.0025
Se1960,196.090 {472},Y_2243,ppm, -.0004,.0015,381.8, -.0015, .0007
Si2516,251.611 {134},Y_3710,ppm, .0069,.0026,37.58, .0051, .0088
Sn1899,189.989 {477},In2306,ppm, -.0018,.0007,39.22, -.0023, -.0013
Sr4215,421.552 { 80},Y_3710,ppm, .0013,.0000,.6017, .0013, .0012
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0004,197.5, -.0005, .0001
Tl1908,190.856 {477},In2306,ppm, -.0010,.0002,21.53, -.0011, -.0008
V_2924,292.402 {115},Y_3600,ppm, .0003,.0000,.2073, .0003, .0003
Zn2062,206.200 {463},In2306,ppm, .0033,.0000,1.190, .0033, .0033

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 906.51,2.9474,.32514,908.59,904.42
In2306,230.606 {446},Cts/S, 16314.,20.353,.12476,16299.,16328.
Y_2243,224.306 {450},Cts/S, 24706.,37.558,.15202,24732.,24679.
Y_3600,360.073 { 94},Cts/S, 197670.,18.726,.00947,197680.,197660.
Y_3710,371.030 { 91},Cts/S, 49655.,113.65,.22887,49735.,49575.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=mb 600-91756/1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:38:59
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0004,.0018,476.7, .0009, -.0016

```
Al3082,308.215 {109},In2306,ppm, -.0225,.0095,42.35, -.0293, -.0158
As1890,189.042 {478},Y_2243,ppm, -.0028,.0003,12.54, -.0030, -.0025
B_2496,249.678 {135},Y_3710,ppm, -.0049,.0023,45.72, -.0033, -.0065
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0000,102.3, .0001, .0000
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,70.87, .0000, .0001
Ca3158,315.887 {107},In2306,ppm, .0029,.0004,12.78, .0031, .0026
Ca3181,318.128 {106},In2306,ppm, -.0005,.0054,1190., -.0043, .0034
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,38.35, .0000, .0000
Co2286,228.616 {447},In2306,ppm, .0000,.0001,495.6, .0001, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0001,56.00, -.0004, -.0002
Cu3247,324.754 {104},Y_3600,ppm, .0084,.0001,1.554, .0085, .0083
Fe2404,240.488 {140},In2306,ppm, .0010,.0016,160.2, .0021, -.0001
K_7664,766.490 { 44},Y_3710,ppm, .0707,.0371,52.51, .0444, .0969
K_7698,769.896 { 44},Y_3710,ppm, .1277,.1476,115.6, .0233, .2320
Li6707,670.784 { 50},Y_3710,ppm, .0010,.0002,19.85, .0012, .0009
Mg2790,279.079 {121},Y_3710,ppm, .0022,.0122,559.3, .0108, -.0064
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0001,261.9, .0000, -.0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0008,.0002,26.56, .0006, .0009
Mo2020,202.030 {467},Y_2243,ppm, .0001,.0004,371.3, .0004, -.0002
Na5895,589.592 { 57},Y_3710,ppm, .2783,.0037,1.313, .2809, .2757
Na8183,818.326 { 41},Y_3710,ppm, .2293,.0341,14.87, .2534, .2052
Ni2316,231.604 {445},In2306,ppm, .0191,.0266,139.3, .0003, .0379
P_1782,178.284 {489},In2306,ppm, -.0015,.0001,5.099, -.0014, -.0015
Pb2203,220.353 {453},In2306,ppm, .0008,.0001,9.480, .0008, .0007
S_1820,182.034 {485},Y_2243,ppm, -5.978,.2692,4.503, -5.788, -6.169
Sb2068,206.833 {463},Y_2243,ppm, -.0009,.0006,61.73, -.0005, -.0014
Se1960,196.090 {472},Y_2243,ppm, -.0005,.0005,108.1, -.0008, -.0001
Si2516,251.611 {134},Y_3710,ppm, -.0015,.0020,134.6, -.0028, -.0001
Sn1899,189.989 {477},In2306,ppm, -.0009,.0000,2.776, -.0009, -.0009
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,114.3, -.0001, .0000
Ti3349,334.904 {101},Y_3600,ppm, -.0008,.0001,14.99, -.0007, -.0008
Tl1908,190.856 {477},In2306,ppm, .0004,.0009,199.6, .0010, -.0002
V_2924,292.402 {115},Y_3600,ppm, .0003,.0000,8.809, .0002, .0003
Zn2062,206.200 {463},In2306,ppm, .0018,.0000,.6122, .0018, .0018

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 934.85,8.9356,.95583,941.17,928.53
In2306,230.606 {446},Cts/S, 17433.,55.373,.31763,17472.,17394.
Y_2243,224.306 {450},Cts/S, 25197.,5.5723,.02212,25201.,25193.
Y_3600,360.073 { 94},Cts/S, 205530.,2176.0,1.0587,203990.,207070.
Y_3710,371.030 { 91},Cts/S, 50827.,118.79,.23371,50911.,50743.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=lcs 600-91756/2-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:41:22
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6397,.0027,.4216, .6416, .6378
Al3082,308.215 {109},In2306,ppm, 10.00,.0468,.4676, 9.970, 10.04
As1890,189.042 {478},Y_2243,ppm, 1.085,.0062,.5738, 1.089, 1.080
B_2496,249.678 {135},Y_3710,ppm, .9792,.0180,1.841, .9665, .9920
```

```
Ba4554,455.403 { 74},Y_3710,ppm, 1.021,.0053,.5220, 1.017, 1.024
Be3130,313.042 {108},Y_3710,ppm, .5039,.0042,.8415, .5009, .5069
Ca3158,315.887 {107},In2306,ppm, 11.67,.0611,.5232, 11.63, 11.71
Ca3181,318.128 {106},In2306,ppm, 9.931,.0471,.4741, 9.897, 9.964
Cd2288,228.802 {447},Y_2243,ppm, .5221,.0014,.2626, .5231, .5212
Co2286,228.616 {447},In2306,ppm, .9355,.0003,.0311, .9353, .9357
Cr2677,267.716 {126},Y_3600,ppm, 1.045,.0039,.3709, 1.047, 1.042
Cu3247,324.754 {104},Y_3600,ppm, 1.095,.0045,.4127, 1.099, 1.092
Fe2404,240.488 {140},In2306,ppm, 10.14,.0498,.4912, 10.10, 10.17
K_7664,766.490 { 44},Y_3710,ppm, 9.903,.0934,.9430, 9.837, 9.969
K_7698,769.896 { 44},Y_3710,ppm, 10.21,.0821,.8046, 10.15, 10.26
Li6707,670.784 { 50},Y_3710,ppm, .5168,.0037,.7245, .5141, .5194
Mg2790,279.079 {121},Y_3710,ppm, 9.679,.1008,1.042, 9.608, 9.751
Mn2576,257.610 {131},Y_3600,ppm, 1.227,.0027,.2183, 1.225, 1.228
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.198,.0037,.3068, 1.195, 1.200
Mo2020,202.030 {467},Y_2243,ppm, 1.329,.0038,.2862, 1.332, 1.326
Na5895,589.592 { 57},Y_3710,ppm, 10.49,.0583,.5559, 10.45, 10.53
Na8183,818.326 { 41},Y_3710,ppm, 9.986,.0150,.1507, 9.976, 9.997
Ni2316,231.604 {445},In2306,ppm, .9964,.0001,.0098, .9964, .9963
P_1782,178.284 {489},In2306,ppm, -.0013,.0014,110.4, -.0023, -.0003
Pb2203,220.353 {453},In2306,ppm, .9782,.0024,.2499, .9800, .9765
S_1820,182.034 {485},Y_2243,ppm, -5.260,.0604,1.148, -5.218, -5.303
Sb2068,206.833 {463},Y_2243,ppm, 1.102,.0059,.5393, 1.107, 1.098
Se1960,196.090 {472},Y_2243,ppm, 1.135,.0031,.2726, 1.137, 1.133
Si2516,251.611 {134},Y_3710,ppm, 1.036,.0105,1.009, 1.029, 1.044
Sn1899,189.989 {477},In2306,ppm, 1.151,.0006,.0531, 1.152, 1.151
Sr4215,421.552 { 80},Y_3710,ppm, .5398,.0026,.4869, .5379, .5417
Ti3349,334.904 {101},Y_3600,ppm, .9915,.0053,.5326, .9952, .9878
Tl1908,190.856 {477},In2306,ppm, .9149,.0019,.2121, .9162, .9135
V_2924,292.402 {115},Y_3600,ppm, 1.110,.0014,.1282, 1.111, 1.109
Zn2062,206.200 {463},In2306,ppm, .9173,.0029,.3158, .9153, .9193

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 903.28,2.3474,.25988,904.94,901.62
In2306,230.606 {446},Cts/S, 15967.,4.1299,.02587,15964.,15970.
Y_2243,224.306 {450},Cts/S, 24701.,29.442,.11919,24680.,24722.
Y_3600,360.073 { 94},Cts/S, 198510.,244.78,.12331,198340.,198680.
Y_3710,371.030 { 91},Cts/S, 49865.,202.00,.40510,50007.,49722.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63237-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:43:29
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0002,.0001,46.93, -.0001, -.0002
Al3082,308.215 {109},In2306,ppm, -.0108,.0079,73.22, -.0164, -.0052
As1890,189.042 {478},Y_2243,ppm, .0017,.0028,168.3, -.0003, .0037
B_2496,249.678 {135},Y_3710,ppm, .2989,.0003,.1008, .2991, .2987
Ba4554,455.403 { 74},Y_3710,ppm, .1078,.0001,.1380, .1077, .1079
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,8.156, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 9.323,.0578,.6205, 9.282, 9.364
```

Ca3181,318.128 {106},In2306,ppm, 7.954,.0249,.3130, 7.972, 7.936
Cd2288,228.802 {447},Y_2243,ppm, .0007,.0008,113.6, .0001, .0013
Co2286,228.616 {447},In2306,ppm, .0010,.0015,147.5, .0000, .0021
Cr2677,267.716 {126},Y_3600,ppm, .0001,.0003,604.3, .0003, -.0002
Cu3247,324.754 {104},Y_3600,ppm, .3967,.0010,.2565, .3975, .3960
Fe2404,240.488 {140},In2306,ppm, 1.666,.0087,.5247, 1.660, 1.672
K_7664,766.490 { 44},Y_3710,ppm, 1.078,.0148,1.370, 1.068, 1.088
K_7698,769.896 { 44},Y_3710,ppm, 1.214,.0077,.6313, 1.208, 1.219
Li6707,670.784 { 50},Y_3710,ppm, .0201,.0004,1.796, .0198, .0203
Mg2790,279.079 {121},Y_3710,ppm, 2.336,.0180,.7716, 2.349, 2.324
Mn2576,257.610 {131},Y_3600,ppm, .0452,.0003,.7498, .0454, .0449
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0443,.0002,.4041, .0444, .0441
Mo2020,202.030 {467},Y_2243,ppm, .0101,.0036,35.13, .0076, .0126
Na5895,589.592 { 57},Y_3710,ppm, 237.2,1.928,.8130, 235.8, 238.5
Na8183,818.326 { 41},Y_3710,ppm, 237.3,.3406,.1435, 237.1, 237.6
Ni2316,231.604 {445},In2306,ppm, .0008,.0013,177.5, -.0002, .0017
P_1782,178.284 {489},In2306,ppm, .1238,.0008,.6571, .1243, .1232
Pb2203,220.353 {453},In2306,ppm, .0090,.0014,16.01, .0080, .0100
S_1820,182.034 {485},Y_2243,ppm, -36.55,.3361,.9196, -36.31, -36.78
Sb2068,206.833 {463},Y_2243,ppm, .0050,.0030,59.66, .0029, .0071
Se1960,196.090 {472},Y_2243,ppm, -.0002,.0010,565.7, -.0009, .0005
Si2516,251.611 {134},Y_3710,ppm, 10.37,.0392,.3786, 10.39, 10.34
Sn1899,189.989 {477},In2306,ppm, .0018,.0015,83.21, .0008, .0029
Sr4215,421.552 { 80},Y_3710,ppm, .2047,.0007,.3365, .2052, .2042
Ti3349,334.904 {101},Y_3600,ppm, .0004,.0001,30.01, .0005, .0003
Tl1908,190.856 {477},In2306,ppm, .0072,.0080,112.1, .0015, .0128
V_2924,292.402 {115},Y_3600,ppm, .0013,.0001,7.070, .0013, .0012
Zn2062,206.200 {463},In2306,ppm, .2529,.0026,1.018, .2511, .2547

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 886.10,.88639,.10003,885.47,886.72
In2306,230.606 {446},Cts/S, 14219.,38.495,.27074,14246.,14191.
Y_2243,224.306 {450},Cts/S, 23333.,21.496,.09213,23348.,23318.
Y_3600,360.073 { 94},Cts/S, 184660.,904.75,.48996,184020.,185300.
Y_3710,371.030 { 91},Cts/S, 48813.,101.23,.20739,48742.,48885.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63237-a-1-b du
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:45:54
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0009,.0000,.8313, .0009, .0009
Al3082,308.215 {109},In2306,ppm, -.0172,.0009,5.284, -.0178, -.0165
As1890,189.042 {478},Y_2243,ppm, .0008,.0008,108.0, .0013, .0002
B_2496,249.678 {135},Y_3710,ppm, .2944,.0000,.0130, .2944, .2944
Ba4554,455.403 { 74},Y_3710,ppm, .1064,.0003,.2907, .1061, .1066
Be3130,313.042 {108},Y_3710,ppm, .0001,.0001,48.19, .0001, .0002
Ca3158,315.887 {107},In2306,ppm, 9.345,.0412,.4405, 9.315, 9.374
Ca3181,318.128 {106},In2306,ppm, 7.936,.1620,2.041, 7.822, 8.051
Cd2288,228.802 {447},Y_2243,ppm, .0003,.0000,8.847, .0002, .0003
Co2286,228.616 {447},In2306,ppm, -.0001,.0001,65.94, -.0001, .0000

```
Cr2677,267.716 {126},Y_3600,ppm, -.0001,.0000,40.36, -.0001, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .3957,.0018,.4439, .3969, .3945
Fe2404,240.488 {140},In2306,ppm, 1.678,.0224,1.336, 1.662, 1.694
K_7664,766.490 { 44},Y_3710,ppm, 1.061,.0019,.1817, 1.060, 1.063
K_7698,769.896 { 44},Y_3710,ppm, 1.281,.0454,3.547, 1.248, 1.313
Li6707,670.784 { 50},Y_3710,ppm, .0189,.0007,3.713, .0184, .0194
Mg2790,279.079 {121},Y_3710,ppm, 2.297,.0110,.4792, 2.305, 2.289
Mn2576,257.610 {131},Y_3600,ppm, .0448,.0000,.0222, .0448, .0448
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0439,.0002,.4791, .0440, .0437
Mo2020,202.030 {467},Y_2243,ppm, .0059,.0005,8.601, .0055, .0062
Na5895,589.592 { 57},Y_3710,ppm, 233.2,1.528,.6552, 232.1, 234.3
Na8183,818.326 { 41},Y_3710,ppm, 236.4,.9968,.4217, 235.7, 237.1
Ni2316,231.604 {445},In2306,ppm, -.0003,.0001,43.53, -.0002, -.0004
P_1782,178.284 {489},In2306,ppm, .1238,.0000,.0329, .1238, .1238
Pb2203,220.353 {453},In2306,ppm, .0087,.0003,3.287, .0089, .0085
S_1820,182.034 {485},Y_2243,ppm, -35.34,.1119,.3168, -35.42, -35.26
Sb2068,206.833 {463},Y_2243,ppm, -.0005,.0011,213.0, -.0013, .0003
Se1960,196.090 {472},Y_2243,ppm, -.0008,.0015,202.4, -.0018, .0003
Si2516,251.611 {134},Y_3710,ppm, 10.29,.0464,.4507, 10.32, 10.25
Sn1899,189.989 {477},In2306,ppm, .0002,.0005,309.9, -.0002, .0005
Sr4215,421.552 { 80},Y_3710,ppm, .2023,.0013,.6605, .2032, .2014
Ti3349,334.904 {101},Y_3600,ppm, -.0001,.0001,62.23, -.0001, -.0002
Tl1908,190.856 {477},In2306,ppm, .0004,.0010,253.3, -.0003, .0012
V_2924,292.402 {115},Y_3600,ppm, .0010,.0001,13.20, .0009, .0011
Zn2062,206.200 {463},In2306,ppm, .2523,.0006,.2350, .2518, .2527

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 886.88,7.3575,.82959,892.09,881.68
In2306,230.606 {446},Cts/S, 14208.,38.680,.27223,14236.,14181.
Y_2243,224.306 {450},Cts/S, 23367.,69.716,.29836,23416.,23318.
Y_3600,360.073 { 94},Cts/S, 184550.,283.34,.15353,184750.,184350.
Y_3710,371.030 { 91},Cts/S, 49030.,74.922,.15281,49083.,48977.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63237-a-1-c ms
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:48:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6466,.0005,.0778, .6469, .6462
Al3082,308.215 {109},In2306,ppm, 9.940,.0221,.2220, 9.955, 9.924
As1890,189.042 {478},Y_2243,ppm, 1.114,.0032,.2885, 1.117, 1.112
B_2496,249.678 {135},Y_3710,ppm, 1.267,.0072,.5692, 1.262, 1.272
Ba4554,455.403 { 74},Y_3710,ppm, 1.112,.0031,.2800, 1.109, 1.114
Be3130,313.042 {108},Y_3710,ppm, .4984,.0021,.4120, .4969, .4998
Ca3158,315.887 {107},In2306,ppm, 20.72,.1615,.7795, 20.61, 20.84
Ca3181,318.128 {106},In2306,ppm, 17.86,.0125,.0698, 17.86, 17.87
Cd2288,228.802 {447},Y_2243,ppm, .5243,.0019,.3579, .5256, .5229
Co2286,228.616 {447},In2306,ppm, .9699,.0029,.3024, .9719, .9678
Cr2677,267.716 {126},Y_3600,ppm, 1.035,.0056,.5433, 1.031, 1.039
Cu3247,324.754 {104},Y_3600,ppm, 1.456,.0010,.0668, 1.456, 1.457
Fe2404,240.488 {140},In2306,ppm, 11.80,.0102,.0868, 11.81, 11.79
```

```
K_7664,766.490 { 44},Y_3710,ppm, 10.89,.0748,.6873, 10.84, 10.94
K_7698,769.896 { 44},Y_3710,ppm, 11.21,.0966,.8610, 11.15, 11.28
Li6707,670.784 { 50},Y_3710,ppm, .5249,.0006,.1094, .5245, .5253
Mg2790,279.079 {121},Y_3710,ppm, 11.70,.0486,.4156, 11.66, 11.73
Mn2576,257.610 {131},Y_3600,ppm, 1.235,.0081,.6587, 1.229, 1.241
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.198,.0150,1.254, 1.187, 1.208
Mo2020,202.030 {467},Y_2243,ppm, 1.302,.0055,.4226, 1.306, 1.298
Na5895,589.592 { 57},Y_3710,ppm, 245.2,5.422,2.211, 241.4, 249.1
Na8183,818.326 { 41},Y_3710,ppm, 243.9,1.867,.7653, 242.6, 245.2
Ni2316,231.604 {445},In2306,ppm, 1.028,.0038,.3718, 1.030, 1.025
P_1782,178.284 {489},In2306,ppm, .1228,.0003,.2258, .1230, .1226
Pb2203,220.353 {453},In2306,ppm, .9912,.0049,.4902, .9947, .9878
S_1820,182.034 {485},Y_2243,ppm, -34.59,.0750,.2168, -34.54, -34.65
Sb2068,206.833 {463},Y_2243,ppm, 1.091,.0081,.7453, 1.097, 1.085
Se1960,196.090 {472},Y_2243,ppm, 1.149,.0054,.4690, 1.153, 1.145
Si2516,251.611 {134},Y_3710,ppm, 11.31,.1238,1.094, 11.22, 11.40
Sn1899,189.989 {477},In2306,ppm, 1.191,.0079,.6606, 1.196, 1.185
Sr4215,421.552 { 80},Y_3710,ppm, .7258,.0037,.5112, .7232, .7285
Ti3349,334.904 {101},Y_3600,ppm, .9919,.0011,.1077, .9911, .9926
Tl1908,190.856 {477},In2306,ppm, .8782,.0012,.1403, .8773, .8791
V_2924,292.402 {115},Y_3600,ppm, 1.108,.0055,.4959, 1.104, 1.112
Zn2062,206.200 {463},In2306,ppm, 1.244,.0049,.3976, 1.247, 1.240

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 872.38,3.4284,.39299,874.80,869.95
In2306,230.606 {446},Cts/S, 13906.,36.583,.26307,13881.,13932.
Y_2243,224.306 {450},Cts/S, 23342.,76.558,.32798,23288.,23396.
Y_3600,360.073 { 94},Cts/S, 184570.,1037.2,.56195,185300.,183840.
Y_3710,371.030 { 91},Cts/S, 48756.,337.20,.69162,48994.,48517.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63237-a-1-d msd
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:50:31
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6357,.0039,.6158, .6385, .6329
Al3082,308.215 {109},In2306,ppm, 9.870,.0170,.1725, 9.858, 9.882
As1890,189.042 {478},Y_2243,ppm, 1.095,.0000,.0043, 1.095, 1.095
B_2496,249.678 {135},Y_3710,ppm, 1.248,.0116,.9265, 1.239, 1.256
Ba4554,455.403 { 74},Y_3710,ppm, 1.093,.0037,.3344, 1.091, 1.096
Be3130,313.042 {108},Y_3710,ppm, .4906,.0003,.0599, .4904, .4908
Ca3158,315.887 {107},In2306,ppm, 20.75,.0075,.0362, 20.75, 20.74
Ca3181,318.128 {106},In2306,ppm, 17.80,.0697,.3915, 17.76, 17.85
Cd2288,228.802 {447},Y_2243,ppm, .5179,.0003,.0572, .5177, .5181
Co2286,228.616 {447},In2306,ppm, .9606,.0000,.0016, .9606, .9606
Cr2677,267.716 {126},Y_3600,ppm, 1.020,.0008,.0739, 1.021, 1.020
Cu3247,324.754 {104},Y_3600,ppm, 1.434,.0032,.2244, 1.432, 1.436
Fe2404,240.488 {140},In2306,ppm, 11.74,.0100,.0850, 11.74, 11.73
K_7664,766.490 { 44},Y_3710,ppm, 10.68,.0278,.2605, 10.70, 10.66
K_7698,769.896 { 44},Y_3710,ppm, 11.07,.0607,.5485, 11.02, 11.11
Li6707,670.784 { 50},Y_3710,ppm, .5186,.0002,.0429, .5185, .5188
```

Mg2790,279.079 {121},Y_3710,ppm, 11.55,.0415,.3589, 11.52, 11.58
Mn2576,257.610 {131},Y_3600,ppm, 1.210,.0048,.3999, 1.213, 1.207
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.183,.0045,.3777, 1.180, 1.186
Mo2020,202.030 {467},Y_2243,ppm, 1.282,.0008,.0614, 1.282, 1.281
Na5895,589.592 { 57},Y_3710,ppm, 239.4,1.249,.5216, 240.3, 238.5
Na8183,818.326 { 41},Y_3710,ppm, 242.6,.3325,.1371, 242.4, 242.9
Ni2316,231.604 {445},In2306,ppm, 1.016,.0018,.1729, 1.018, 1.015
P_1782,178.284 {489},In2306,ppm, .1238,.0004,.2852, .1240, .1235
Pb2203,220.353 {453},In2306,ppm, .9834,.0009,.0905, .9828, .9841
S_1820,182.034 {485},Y_2243,ppm, -34.41,.0739,.2147, -34.36, -34.46
Sb2068,206.833 {463},Y_2243,ppm, 1.079,.0020,.1872, 1.081, 1.078
Se1960,196.090 {472},Y_2243,ppm, 1.127,.0028,.2449, 1.125, 1.129
Si2516,251.611 {134},Y_3710,ppm, 11.20,.0016,.0144, 11.20, 11.20
Sn1899,189.989 {477},In2306,ppm, 1.177,.0051,.4334, 1.180, 1.173
Sr4215,421.552 { 80},Y_3710,ppm, .7145,.0007,.0936, .7141, .7150
Ti3349,334.904 {101},Y_3600,ppm, .9815,.0027,.2774, .9835, .9796
Tl1908,190.856 {477},In2306,ppm, .8772,.0047,.5310, .8805, .8739
V_2924,292.402 {115},Y_3600,ppm, 1.089,.0019,.1750, 1.090, 1.088
Zn2062,206.200 {463},In2306,ppm, 1.235,.0020,.1610, 1.236, 1.233

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 867.77,5.3874,.62083,863.96,871.58
In2306,230.606 {446},Cts/S, 13911.,19.196,.13799,13925.,13897.
Y_2243,224.306 {450},Cts/S, 23444.,39.394,.16803,23472.,23417.
Y_3600,360.073 { 94},Cts/S, 184620.,476.63,.25816,184290.,184960.
Y_3710,371.030 { 91},Cts/S, 48854.,292.42,.59856,48648.,49061.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63214-d-1-a@20
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:52:44
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0013,.0005,40.19, -.0017, -.0010
Al3082,308.215 {109},In2306,ppm, -.0081,.0079,98.08, -.0025, -.0137
As1890,189.042 {478},Y_2243,ppm, .0003,.0001,56.57, .0002, .0004
B_2496,249.678 {135},Y_3710,ppm, .0014,.0000,1.776, .0014, .0014
Ba4554,455.403 { 74},Y_3710,ppm, .0001,.0000,30.41, .0000, .0001
Be3130,313.042 {108},Y_3710,ppm, .0002,.0001,45.79, .0002, .0001
Ca3158,315.887 {107},In2306,ppm, .0405,.0011,2.651, .0413, .0398
Ca3181,318.128 {106},In2306,ppm, .0533,.0004,.7392, .0536, .0530
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0004,163.8, .0000, .0005
Co2286,228.616 {447},In2306,ppm, .0008,.0007,91.18, .0003, .0013
Cr2677,267.716 {126},Y_3600,ppm, .0276,.0002,.7165, .0274, .0277
Cu3247,324.754 {104},Y_3600,ppm, .0050,.0003,6.178, .0052, .0048
Fe2404,240.488 {140},In2306,ppm, .3645,.0054,1.493, .3607, .3684
K_7664,766.490 { 44},Y_3710,ppm, .9461,.0043,.4575, .9492, .9431
K_7698,769.896 { 44},Y_3710,ppm, 1.028,.0080,.7798, 1.023, 1.034
Li6707,670.784 { 50},Y_3710,ppm, -.0001,.0003,272.1, .0001, -.0003
Mg2790,279.079 {121},Y_3710,ppm, .0117,.0004,3.175, .0114, .0120
Mn2576,257.610 {131},Y_3600,ppm, .0054,.0000,.7544, .0054, .0054
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0058,.0008,14.64, .0064, .0052

```
Mo2020,202.030 {467},Y_2243,ppm, .0049,.0018,37.86, .0036, .0062
Na5895,589.592 { 57},Y_3710,ppm, .5263,.0219,4.153, .5417, .5108
Na8183,818.326 { 41},Y_3710,ppm, .4285,.0892,20.83, .4916, .3654
Ni2316,231.604 {445},In2306,ppm, .0083,.0007,8.958, .0078, .0088
P_1782,178.284 {489},In2306,ppm, .0004,.0004,94.02, .0007, .0001
Pb2203,220.353 {453},In2306,ppm, .0003,.0009,355.7, -.0004, .0009
S_1820,182.034 {485},Y_2243,ppm, -93.17,.5204,.5585, -93.54, -92.80
Sb2068,206.833 {463},Y_2243,ppm, .0042,.0019,44.39, .0029, .0056
Se1960,196.090 {472},Y_2243,ppm, .0007,.0022,325.3, -.0009, .0022
Si2516,251.611 {134},Y_3710,ppm, .0229,.0008,3.538, .0235, .0224
Sn1899,189.989 {477},In2306,ppm, .0011,.0021,183.2, -.0003, .0026
Sr4215,421.552 { 80},Y_3710,ppm, .0001,.0001,49.81, .0002, .0001
Ti3349,334.904 {101},Y_3600,ppm, -.0004,.0001,17.99, -.0004, -.0003
Tl1908,190.856 {477},In2306,ppm, .0072,.0070,97.22, .0023, .0122
V_2924,292.402 {115},Y_3600,ppm, .0005,.0003,53.10, .0003, .0007
Zn2062,206.200 {463},In2306,ppm, .0042,.0008,18.45, .0036, .0047

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 928.01,4.4434,.47881,931.15,924.86
In2306,230.606 {446},Cts/S, 17371.,54.988,.31655,17332.,17410.
Y_2243,224.306 {450},Cts/S, 25307.,122.73,.48496,25220.,25394.
Y_3600,360.073 { 94},Cts/S, 204860.,222.01,.10837,204710.,205020.
Y_3710,371.030 { 91},Cts/S, 50056.,5.8319,.01165,50060.,50052.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=PDS 600-63237-a-1-a
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:55:06
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6034,.0036,.5891, .6059, .6009
Al3082,308.215 {109},In2306,ppm, 9.402,.0910,.9683, 9.338, 9.466
As1890,189.042 {478},Y_2243,ppm, 1.048,.0015,.1465, 1.049, 1.047
B_2496,249.678 {135},Y_3710,ppm, 1.222,.0040,.3305, 1.219, 1.225
Ba4554,455.403 { 74},Y_3710,ppm, 1.055,.0034,.3254, 1.052, 1.057
Be3130,313.042 {108},Y_3710,ppm, .4688,.0027,.5774, .4669, .4707
Ca3158,315.887 {107},In2306,ppm, 19.99,.1183,.5917, 19.91, 20.08
Ca3181,318.128 {106},In2306,ppm, 17.37,.0737,.4243, 17.31, 17.42
Cd2288,228.802 {447},Y_2243,ppm, .4963,.0010,.2066, .4956, .4971
Co2286,228.616 {447},In2306,ppm, .9278,.0030,.3227, .9257, .9299
Cr2677,267.716 {126},Y_3600,ppm, .9811,.0011,.1105, .9819, .9803
Cu3247,324.754 {104},Y_3600,ppm, 1.390,.0026,.1897, 1.392, 1.388
Fe2404,240.488 {140},In2306,ppm, 11.22,.0749,.6681, 11.16, 11.27
K_7664,766.490 { 44},Y_3710,ppm, 10.30,.0285,.2771, 10.28, 10.32
K_7698,769.896 { 44},Y_3710,ppm, 10.67,.0238,.2228, 10.65, 10.68
Li6707,670.784 { 50},Y_3710,ppm, .4948,.0010,.2052, .4955, .4941
Mg2790,279.079 {121},Y_3710,ppm, 11.18,.1099,.9829, 11.10, 11.26
Mn2576,257.610 {131},Y_3600,ppm, 1.153,.0053,.4605, 1.156, 1.149
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.130,.0038,.3348, 1.133, 1.128
Mo2020,202.030 {467},Y_2243,ppm, 1.224,.0071,.5762, 1.229, 1.219
Na5895,589.592 { 57},Y_3710,ppm, 241.1,1.035,.4294, 240.4, 241.9
Na8183,818.326 { 41},Y_3710,ppm, 243.4,2.119,.8706, 241.9, 244.9
```

```
Ni2316,231.604 {445},In2306,ppm, .9779,.0027,.2713, .9761, .9798
P_1782,178.284 {489},In2306,ppm, .1246,.0012,.9603, .1254, .1237
Pb2203,220.353 {453},In2306,ppm, .9432,.0016,.1734, .9421, .9444
S_1820,182.034 {485},Y_2243,ppm, -33.96,.3366,.9912, -33.72, -34.20
Sb2068,206.833 {463},Y_2243,ppm, 1.034,.0054,.5256, 1.037, 1.030
Se1960,196.090 {472},Y_2243,ppm, 1.076,.0016,.1530, 1.075, 1.078
Si2516,251.611 {134},Y_3710,ppm, 11.22,.0915,.8156, 11.15, 11.28
Sn1899,189.989 {477},In2306,ppm, 1.127,.0002,.0150, 1.127, 1.127
Sr4215,421.552 { 80},Y_3710,ppm, .6924,.0034,.4901, .6900, .6948
Ti3349,334.904 {101},Y_3600,ppm, .9530,.0051,.5360, .9493, .9566
Tl1908,190.856 {477},In2306,ppm, .8431,.0029,.3426, .8411, .8452
V_2924,292.402 {115},Y_3600,ppm, 1.045,.0025,.2402, 1.046, 1.043
Zn2062,206.200 {463},In2306,ppm, 1.205,.0026,.2168, 1.203, 1.207

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 873.12,1.3101,.15005,872.19,874.04
In2306,230.606 {446},Cts/S, 13846.,44.921,.32444,13877.,13814.
Y_2243,224.306 {450},Cts/S, 23490.,47.760,.20332,23524.,23456.
Y_3600,360.073 { 94},Cts/S, 184440.,596.26,.32329,184010.,184860.
Y_3710,371.030 { 91},Cts/S, 48791.,29.677,.06082,48812.,48770.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=SD 600-63237-a-1-a@5
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:57:19
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0004,.0005,134.2, .0000, -.0008
Al3082,308.215 {109},In2306,ppm, -.0017,.0050,301.7, -.0052, .0019
As1890,189.042 {478},Y_2243,ppm, -.0004,.0018,404.7, -.0017, .0008
B_2496,249.678 {135},Y_3710,ppm, .0615,.0004,.6728, .0617, .0612
Ba4554,455.403 { 74},Y_3710,ppm, .0216,.0000,.0903, .0216, .0216
Be3130,313.042 {108},Y_3710,ppm, .0002,.0000,6.141, .0002, .0002
Ca3158,315.887 {107},In2306,ppm, 1.861,.0177,.9530, 1.849, 1.874
Ca3181,318.128 {106},In2306,ppm, 1.597,.0124,.7746, 1.589, 1.606
Cd2288,228.802 {447},Y_2243,ppm, .0002,.0002,109.6, .0000, .0003
Co2286,228.616 {447},In2306,ppm, .0001,.0003,479.7, -.0002, .0003
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0004,143.4, .0000, -.0005
Cu3247,324.754 {104},Y_3600,ppm, .0827,.0003,.3319, .0825, .0829
Fe2404,240.488 {140},In2306,ppm, .3367,.0087,2.596, .3305, .3429
K_7664,766.490 { 44},Y_3710,ppm, .2215,.0277,12.51, .2411, .2019
K_7698,769.896 { 44},Y_3710,ppm, .3217,.0157,4.868, .3328, .3107
Li6707,670.784 { 50},Y_3710,ppm, .0051,.0008,16.46, .0045, .0056
Mg2790,279.079 {121},Y_3710,ppm, .4921,.0139,2.831, .4823, .5020
Mn2576,257.610 {131},Y_3600,ppm, .0089,.0001,1.109, .0088, .0089
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0094,.0004,4.603, .0091, .0097
Mo2020,202.030 {467},Y_2243,ppm, .0043,.0015,34.93, .0032, .0054
Na5895,589.592 { 57},Y_3710,ppm, 48.09,.0916,.1906, 48.02, 48.15
Na8183,818.326 { 41},Y_3710,ppm, 47.32,.4650,.9828, 47.65, 46.99
Ni2316,231.604 {445},In2306,ppm, .0001,.0005,314.1, -.0002, .0005
P_1782,178.284 {489},In2306,ppm, .0207,.0003,1.527, .0205, .0209
Pb2203,220.353 {453},In2306,ppm, .0018,.0010,55.00, .0011, .0025
```

S_1820,182.034 {485},Y_2243,ppm, -9.852,.0291,.2951, -9.872, -9.831
Sb2068,206.833 {463},Y_2243,ppm, .0031,.0018,56.35, .0019, .0044
Se1960,196.090 {472},Y_2243,ppm, .0002,.0001,66.20, .0001, .0002
Si2516,251.611 {134},Y_3710,ppm, 2.053,.0055,.2702, 2.057, 2.049
Sn1899,189.989 {477},In2306,ppm, -.0001,.0008,643.1, -.0007, .0004
Sr4215,421.552 { 80},Y_3710,ppm, .0406,.0001,.1592, .0406, .0405
Ti3349,334.904 {101},Y_3600,ppm, -.0002,.0001,39.02, -.0001, -.0002
Tl1908,190.856 {477},In2306,ppm, .0020,.0017,85.57, .0008, .0032
V_2924,292.402 {115},Y_3600,ppm, .0008,.0000,2.269, .0007, .0008
Zn2062,206.200 {463},In2306,ppm, .0513,.0007,1.321, .0508, .0518

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 893.61,2.2136,.24771,895.17,892.04
In2306,230.606 {446},Cts/S, 15753.,28.041,.17801,15772.,15733.
Y_2243,224.306 {450},Cts/S, 24542.,8.1762,.03332,24548.,24536.
Y_3600,360.073 { 94},Cts/S, 195690.,562.77,.28758,195300.,196090.
Y_3710,371.030 { 91},Cts/S, 48931.,181.77,.37147,48802.,49059.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 11:59:40
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .2952,.0015,.4960, .2962, .2942
Al3082,308.215 {109},In2306,ppm, 2.314,.0269,1.165, 2.333, 2.295
As1890,189.042 {478},Y_2243,ppm, .5124,.0020,.3911, .5110, .5138
B_2496,249.678 {135},Y_3710,ppm, .4608,.0002,.0477, .4606, .4610
Ba4554,455.403 { 74},Y_3710,ppm, .4745,.0022,.4555, .4730, .4760
Be3130,313.042 {108},Y_3710,ppm, .4688,.0000,.0070, .4689, .4688
Ca3158,315.887 {107},In2306,ppm, 13.48,.0688,.5101, 13.53, 13.43
Ca3181,318.128 {106},In2306,ppm, 11.63,.0852,.7323, 11.69, 11.57
Cd2288,228.802 {447},Y_2243,ppm, .4944,.0005,.1037, .4941, .4948
Co2286,228.616 {447},In2306,ppm, .4458,.0003,.0739, .4461, .4456
Cr2677,267.716 {126},Y_3600,ppm, .5030,.0011,.2195, .5023, .5038
Cu3247,324.754 {104},Y_3600,ppm, .5106,.0029,.5584, .5126, .5086
Fe2404,240.488 {140},In2306,ppm, 2.372,.0235,.9904, 2.388, 2.355
K_7664,766.490 { 44},Y_3710,ppm, 11.63,.0214,.1836, 11.62, 11.65
K_7698,769.896 { 44},Y_3710,ppm, 11.85,.1106,.9339, 11.92, 11.77
Li6707,670.784 { 50},Y_3710,ppm, .4853,.0036,.7520, .4827, .4879
Mg2790,279.079 {121},Y_3710,ppm, 4.547,.0305,.6715, 4.569, 4.526
Mn2576,257.610 {131},Y_3600,ppm, .5679,.0038,.6625, .5706, .5653
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5480,.0008,.1529, .5474, .5486
Mo2020,202.030 {467},Y_2243,ppm, .6099,.0007,.1095, .6104, .6094
Na5895,589.592 { 57},Y_3710,ppm, 12.21,.0057,.0469, 12.21, 12.20
Na8183,818.326 { 41},Y_3710,ppm, 11.77,.0434,.3689, 11.80, 11.74
Ni2316,231.604 {445},In2306,ppm, .4715,.0008,.1684, .4709, .4720
P_1782,178.284 {489},In2306,ppm, .4595,.0017,.3803, .4607, .4583
Pb2203,220.353 {453},In2306,ppm, .4634,.0016,.3558, .4622, .4646
S_1820,182.034 {485},Y_2243,ppm, -186.9,.0565,.0302, -187.0, -186.9
Sb2068,206.833 {463},Y_2243,ppm, .5185,.0016,.3005, .5174, .5196
Se1960,196.090 {472},Y_2243,ppm, .5297,.0013,.2416, .5288, .5306

Si2516,251.611 {134},Y_3710,ppm, .9575,.0005,.0547, .9571, .9579
Sn1899,189.989 {477},In2306,ppm, .5353,.0011,.2093, .5345, .5361
Sr4215,421.552 { 80},Y_3710,ppm, .2475,.0007,.2745, .2470, .2480
Ti3349,334.904 {101},Y_3600,ppm, .4751,.0003,.0553, .4749, .4752
Tl1908,190.856 {477},In2306,ppm, .4400,.0012,.2772, .4408, .4391
V_2924,292.402 {115},Y_3600,ppm, .5266,.0016,.3073, .5277, .5254
Zn2062,206.200 {463},In2306,ppm, .4414,.0006,.1434, .4409, .4418

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 901.68,21.893,2.4280,886.20,917.16
In2306,230.606 {446},Cts/S, 15996.,44.870,.28051,16027.,15964.
Y_2243,224.306 {450},Cts/S, 24835.,66.270,.26684,24882.,24788.
Y_3600,360.073 { 94},Cts/S, 197590.,569.23,.28808,197190.,197990.
Y_3710,371.030 { 91},Cts/S, 49468.,730.13,1.4760,48952.,49984.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:01:47
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0059,.0003,5.388, .0057, .0061
Al3082,308.215 {109},In2306,ppm, .0769,.0139,18.04, .0867, .0671
As1890,189.042 {478},Y_2243,ppm, .0089,.0002,1.873, .0090, .0088
B_2496,249.678 {135},Y_3710,ppm, .0060,.0046,77.44, .0027, .0093
Ba4554,455.403 { 74},Y_3710,ppm, .0098,.0003,2.935, .0096, .0100
Be3130,313.042 {108},Y_3710,ppm, .0049,.0002,4.214, .0047, .0050
Ca3158,315.887 {107},In2306,ppm, .1182,.0107,9.085, .1106, .1258
Ca3181,318.128 {106},In2306,ppm, .1000,.0082,8.161, .1057, .0942
Cd2288,228.802 {447},Y_2243,ppm, .0053,.0003,4.783, .0051, .0054
Co2286,228.616 {447},In2306,ppm, .0090,.0003,3.512, .0088, .0092
Cr2677,267.716 {126},Y_3600,ppm, .0098,.0000,.2628, .0098, .0097
Cu3247,324.754 {104},Y_3600,ppm, .0145,.0002,1.641, .0147, .0144
Fe2404,240.488 {140},In2306,ppm, .0957,.0004,.4548, .0954, .0960
K_7664,766.490 { 44},Y_3710,ppm, .6055,.0076,1.250, .6108, .6001
K_7698,769.896 { 44},Y_3710,ppm, .6883,.0387,5.619, .7157, .6610
Li6707,670.784 { 50},Y_3710,ppm, .0052,.0003,6.054, .0055, .0050
Mg2790,279.079 {121},Y_3710,ppm, .0978,.0099,10.07, .1048, .0909
Mn2576,257.610 {131},Y_3600,ppm, .0118,.0001,.5078, .0118, .0117
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0113,.0005,4.525, .0109, .0117
Mo2020,202.030 {467},Y_2243,ppm, .0137,.0012,8.940, .0128, .0145
Na5895,589.592 { 57},Y_3710,ppm, .7990,.0132,1.649, .7897, .8083
Na8183,818.326 { 41},Y_3710,ppm, .7202,.1101,15.28, .6424, .7981
Ni2316,231.604 {445},In2306,ppm, .0095,.0002,2.283, .0094, .0097
P_1782,178.284 {489},In2306,ppm, -.0022,.0003,14.01, -.0024, -.0019
Pb2203,220.353 {453},In2306,ppm, .0100,.0004,4.256, .0097, .0103
S_1820,182.034 {485},Y_2243,ppm, -3.561,.0484,1.360, -3.595, -3.527
Sb2068,206.833 {463},Y_2243,ppm, .0127,.0013,10.04, .0118, .0136
Se1960,196.090 {472},Y_2243,ppm, .0110,.0008,6.948, .0104, .0115
Si2516,251.611 {134},Y_3710,ppm, .0117,.0001,1.050, .0117, .0118
Sn1899,189.989 {477},In2306,ppm, .0106,.0005,4.417, .0102, .0109
Sr4215,421.552 { 80},Y_3710,ppm, .0050,.0003,5.094, .0048, .0052

Ti3349,334.904 {101},Y_3600,ppm, .0088,.0002,2.520, .0090, .0087
Tl1908,190.856 {477},In2306,ppm, .0110,.0030,27.71, .0088, .0131
V_2924,292.402 {115},Y_3600,ppm, .0103,.0001,.9303, .0102, .0103
Zn2062,206.200 {463},In2306,ppm, .0090,.0003,2.897, .0088, .0091

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 913.82,7.4851,.81909,919.11,908.53
In2306,230.606 {446},Cts/S, 17182.,8.5944,.05002,17188.,17176.
Y_2243,224.306 {450},Cts/S, 25325.,73.672,.29091,25273.,25377.
Y_3600,360.073 { 94},Cts/S, 203790.,288.83,.14173,203590.,204000.
Y_3710,371.030 { 91},Cts/S, 49472.,747.48,1.5109,50001.,48944.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:04:08
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0000,.0011,3712., .0007, -.0008
Al3082,308.215 {109},In2306,ppm, -.0242,.0046,19.03, -.0210, -.0275
As1890,189.042 {478},Y_2243,ppm, -.0018,.0010,54.66, -.0011, -.0025
B_2496,249.678 {135},Y_3710,ppm, -.0025,.0008,29.85, -.0031, -.0020
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0001,553.5, .0001, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,7.797, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, .0010,.0048,458.2, .0044, -.0023
Ca3181,318.128 {106},In2306,ppm, .0084,.0162,193.5, .0199, -.0031
Cd2288,228.802 {447},Y_2243,ppm, -.0001,.0000,19.98, -.0001, -.0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,168.3, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0000,3.017, -.0003, -.0003
Cu3247,324.754 {104},Y_3600,ppm, .0040,.0005,11.42, .0037, .0044
Fe2404,240.488 {140},In2306,ppm, -.0013,.0023,180.8, -.0029, .0003
K_7664,766.490 { 44},Y_3710,ppm, .0143,.0176,122.7, .0267, .0019
K_7698,769.896 { 44},Y_3710,ppm, .1290,.0188,14.57, .1157, .1423
Li6707,670.784 { 50},Y_3710,ppm, -.0006,.0014,255.3, .0004, -.0015
Mg2790,279.079 {121},Y_3710,ppm, .0094,.0039,41.81, .0122, .0066
Mn2576,257.610 {131},Y_3600,ppm, .0000,.0001,487.1, -.0001, .0000
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0002,.0007,326.2, .0007, -.0003
Mo2020,202.030 {467},Y_2243,ppm, .0003,.0000,15.49, .0003, .0003
Na5895,589.592 { 57},Y_3710,ppm, .1968,.0016,.7927, .1957, .1979
Na8183,818.326 { 41},Y_3710,ppm, .1106,.1911,172.8, .2457, -.0246
Ni2316,231.604 {445},In2306,ppm, .0000,.0002,475.9, .0002, -.0001
P_1782,178.284 {489},In2306,ppm, -.0015,.0005,32.56, -.0011, -.0018
Pb2203,220.353 {453},In2306,ppm, .0003,.0000,5.889, .0004, .0003
S_1820,182.034 {485},Y_2243,ppm, -3.353,.0229,.6821, -3.337, -3.369
Sb2068,206.833 {463},Y_2243,ppm, .0003,.0000,5.637, .0003, .0003
Se1960,196.090 {472},Y_2243,ppm, -.0008,.0007,90.50, -.0003, -.0012
Si2516,251.611 {134},Y_3710,ppm, .0007,.0020,269.3, -.0007, .0022
Sn1899,189.989 {477},In2306,ppm, -.0004,.0009,236.6, .0003, -.0010
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,389.4, .0000, .0000
Ti3349,334.904 {101},Y_3600,ppm, -.0005,.0002,39.71, -.0006, -.0004
Tl1908,190.856 {477},In2306,ppm, .0006,.0003,50.27, .0008, .0004
V_2924,292.402 {115},Y_3600,ppm, .0006,.0001,22.85, .0007, .0005

Zn2062,206.200 {463},In2306,ppm, -.0002,.0001,38.32, -.0001, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 921.95,9.0107,.97735,928.33,915.58
In2306,230.606 {446},Cts/S, 17263.,33.720,.19533,17287.,17239.
Y_2243,224.306 {450},Cts/S, 25246.,47.442,.18792,25280.,25213.
Y_3600,360.073 { 94},Cts/S, 204140.,191.18,.09365,204000.,204270.
Y_3710,371.030 { 91},Cts/S, 49703.,507.49,1.0210,50062.,49344.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63252-a-5-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:06:30
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0010,188.4, .0002, -.0012
Al3082,308.215 {109},In2306,ppm, 3.570,.0521,1.458, 3.534, 3.607
As1890,189.042 {478},Y_2243,ppm, .1196,.0004,.3420, .1193, .1198
B_2496,249.678 {135},Y_3710,ppm, .0108,.0049,45.58, .0142, .0073
Ba4554,455.403 { 74},Y_3710,ppm, .0682,.0010,1.488, .0674, .0689
Be3130,313.042 {108},Y_3710,ppm, .0003,.0000,.3631, .0003, .0003
Ca3158,315.887 {107},In2306,ppm, 652.3,47.53,7.286, 618.6, 685.9
Ca3181,318.128 {106},In2306,ppm, 585.6,8.364,1.428, 579.7, 591.6
Cd2288,228.802 {447},Y_2243,ppm, .3729,.0012,.3290, .3738, .3721
Co2286,228.616 {447},In2306,ppm, .0051,.0000,.7115, .0051, .0052
Cr2677,267.716 {126},Y_3600,ppm, .0134,.0002,1.529, .0133, .0136
Cu3247,324.754 {104},Y_3600,ppm, .1704,.0025,1.486, .1721, .1686
Fe2404,240.488 {140},In2306,ppm, 9.723,.1750,1.800, 9.600, 9.847
K_7664,766.490 { 44},Y_3710,ppm, .7935,.0063,.7951, .7980, .7891
K_7698,769.896 { 44},Y_3710,ppm, .8638,.0145,1.673, .8741, .8536
Li6707,670.784 { 50},Y_3710,ppm, .0195,.0011,5.440, .0188, .0203
Mg2790,279.079 {121},Y_3710,ppm, 11.36,.2184,1.922, 11.21, 11.52
Mn2576,257.610 {131},Y_3600,ppm, .4745,.0085,1.787, .4805, .4685
Mn2576-2,257.610 {131}2,Y_3710,ppm, .4493,.0110,2.446, .4415, .4570
Mo2020,202.030 {467},Y_2243,ppm, .0010,.0001,8.702, .0010, .0009
Na5895,589.592 { 57},Y_3710,ppm, 6.183,.0812,1.313, 6.126, 6.241
Na8183,818.326 { 41},Y_3710,ppm, 5.705,.0164,.2881, 5.717, 5.693
Ni2316,231.604 {445},In2306,ppm, .0374,.0000,.0240, .0374, .0374
P_1782,178.284 {489},In2306,ppm, .4399,.0024,.5352, .4416, .4383
Pb2203,220.353 {453},In2306,ppm, 8.942,.0260,.2907, 8.961, 8.924
S_1820,182.034 {485},Y_2243,ppm, -904.0,1.770,.1958, -905.2, -902.7
Sb2068,206.833 {463},Y_2243,ppm, .0767,.0011,1.439, .0775, .0759
Se1960,196.090 {472},Y_2243,ppm, .0178,.0008,4.586, .0184, .0173
Si2516,251.611 {134},Y_3710,ppm, .8429,.0118,1.402, .8345, .8512
Sn1899,189.989 {477},In2306,ppm, .1441,.0000,.0050, .1441, .1441
Sr4215,421.552 { 80},Y_3710,ppm, 1.469,.0234,1.593, 1.453, 1.486
Ti3349,334.904 {101},Y_3600,ppm, .0294,.0006,2.000, .0298, .0290
Tl1908,190.856 {477},In2306,ppm, .0000,.0005,1126., -.0004, .0003
V_2924,292.402 {115},Y_3600,ppm, .0214,.0007,3.420, .0219, .0209
Zn2062,206.200 {463},In2306,ppm, .0798,.0004,.5122, .0801, .0795

[Internal Standards]

```
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 858.04,9.3238,1.0866,864.64,851.45
In2306,230.606 {446},Cts/S, 13210.,.64350,.00487,13211.,13210.
Y_2243,224.306 {450},Cts/S, 22534.,11.722,.05202,22526.,22543.
Y_3600,360.073 { 94},Cts/S, 177930.,2404.4,1.3513,176230.,179640.
Y_3710,371.030 { 91},Cts/S, 48642.,562.65,1.1567,49040.,48244.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=600-63252-a-6-a@10
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:08:51
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0001,.0004,392.1, .0002, -.0004
Al3082,308.215 {109},In2306,ppm, 19.59,.1311,.6690, 19.50, 19.69
As1890,189.042 {478},Y_2243,ppm, .0522,.0003,.6286, .0520, .0524
B_2496,249.678 {135},Y_3710,ppm, .0173,.0026,14.96, .0191, .0154
Ba4554,455.403 { 74},Y_3710,ppm, .1835,.0014,.7757, .1825, .1845
Be3130,313.042 {108},Y_3710,ppm, .0014,.0001,4.254, .0014, .0013
Ca3158,315.887 {107},In2306,ppm, 202.6,2.393,1.181, 200.9, 204.3
Ca3181,318.128 {106},In2306,ppm, 174.1,1.982,1.139, 172.7, 175.5
Cd2288,228.802 {447},Y_2243,ppm, .0101,.0000,.3231, .0100, .0101
Co2286,228.616 {447},In2306,ppm, .0119,.0001,.6932, .0119, .0120
Cr2677,267.716 {126},Y_3600,ppm, .0310,.0002,.8034, .0312, .0309
Cu3247,324.754 {104},Y_3600,ppm, .0461,.0005,1.073, .0465, .0458
Fe2404,240.488 {140},In2306,ppm, 23.70,.3062,1.292, 23.48, 23.91
K_7664,766.490 { 44},Y_3710,ppm, 2.504,.0031,.1219, 2.506, 2.501
K_7698,769.896 { 44},Y_3710,ppm, 2.596,.0256,.9847, 2.578, 2.614
Li6707,670.784 { 50},Y_3710,ppm, .0148,.0009,5.791, .0154, .0142
Mg2790,279.079 {121},Y_3710,ppm, 5.943,.0248,.4170, 5.926, 5.961
Mn2576,257.610 {131},Y_3600,ppm, .9158,.0024,.2621, .9175, .9141
Mn2576-2,257.610 {131}2,Y_3710,ppm, .8696,.0002,.0258, .8695, .8698
Mo2020,202.030 {467},Y_2243,ppm, .0020,.0002,8.290, .0021, .0019
Na5895,589.592 { 57},Y_3710,ppm, 15.55,.0752,.4837, 15.50, 15.60
Na8183,818.326 { 41},Y_3710,ppm, 14.83,.0970,.6542, 14.76, 14.90
Ni2316,231.604 {445},In2306,ppm, .0432,.0000,.0498, .0432, .0432
P_1782,178.284 {489},In2306,ppm, 1.148,.0029,.2511, 1.150, 1.146
Pb2203,220.353 {453},In2306,ppm, 36.99,.0408,.1102, 37.02, 36.96
S_1820,182.034 {485},Y_2243,ppm, -2799.,.4988,.0178, -2799., -2800.
Sb2068,206.833 {463},Y_2243,ppm, .0572,.0000,.0866, .0571, .0572
Se1960,196.090 {472},Y_2243,ppm, .0004,.0014,364.2, -.0006, .0014
Si2516,251.611 {134},Y_3710,ppm, 1.417,.0051,.3600, 1.413, 1.420
Sn1899,189.989 {477},In2306,ppm, .0274,.0011,3.887, .0282, .0267
Sr4215,421.552 { 80},Y_3710,ppm, .5335,.0030,.5560, .5314, .5356
Ti3349,334.904 {101},Y_3600,ppm, .0399,.0001,.2593, .0398, .0400
Tl1908,190.856 {477},In2306,ppm, -.0009,.0004,51.15, -.0005, -.0012
V_2924,292.402 {115},Y_3600,ppm, .0913,.0008,.8610, .0919, .0908
Zn2062,206.200 {463},In2306,ppm, .1940,.0003,.1449, .1942, .1938

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 896.18,8.3304,.92955,902.07,890.29
In2306,230.606 {446},Cts/S, 14555.,1.7359,.01193,14554.,14556.
```

Y_2243,224.306 {450},Cts/S, 24368.,33.622,.13798,24391.,24344.
Y_3600,360.073 { 94},Cts/S, 193040.,753.59,.39038,192510.,193570.
Y_3710,371.030 { 91},Cts/S, 50713.,489.93,.96609,51060.,50367.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICSAB 993658
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:11:03
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .6590,.0094,1.433, .6657, .6524
Al3082,308.215 {109},In2306,ppm, 528.5,2.109,.3990, 530.0, 527.1
As1890,189.042 {478},Y_2243,ppm, 1.075,.0020,.1834, 1.076, 1.073
B_2496,249.678 {135},Y_3710,ppm, .9636,.0014,.1498, .9647, .9626
Ba4554,455.403 { 74},Y_3710,ppm, 1.003,.0004,.0407, 1.003, 1.004
Be3130,313.042 {108},Y_3710,ppm, .4829,.0005,.1080, .4826, .4833
Ca3158,315.887 {107},In2306,ppm, 552.2,21.73,3.936, 536.9, 567.6
Ca3181,318.128 {106},In2306,ppm, 497.1,2.445,.4918, 498.8, 495.3
Cd2288,228.802 {447},Y_2243,ppm, .5235,.0027,.5149, .5216, .5254
Co2286,228.616 {447},In2306,ppm, .9371,.0065,.6940, .9325, .9417
Cr2677,267.716 {126},Y_3600,ppm, .9766,.0065,.6631, .9812, .9720
Cu3247,324.754 {104},Y_3600,ppm, 1.102,.0048,.4314, 1.105, 1.099
Fe2404,240.488 {140},In2306,ppm, 202.1,1.184,.5859, 203.0, 201.3
K_7664,766.490 { 44},Y_3710,ppm, 10.23,.0371,.3630, 10.20, 10.25
K_7698,769.896 { 44},Y_3710,ppm, 10.08,.0689,.6841, 10.13, 10.03
Li6707,670.784 { 50},Y_3710,ppm, 1.085,.0012,.1079, 1.084, 1.086
Mg2790,279.079 {121},Y_3710,ppm, 488.8,.6422,.1314, 488.3, 489.2
Mn2576,257.610 {131},Y_3600,ppm, 1.122,.0123,1.092, 1.131, 1.114
Mn2576-2,257.610 {131}2,Y_3710,ppm, 1.100,.0034,.3063, 1.102, 1.098
Mo2020,202.030 {467},Y_2243,ppm, 1.157,.0017,.1446, 1.156, 1.158
Na5895,589.592 { 57},Y_3710,ppm, 10.80,.0213,.1974, 10.79, 10.82
Na8183,818.326 { 41},Y_3710,ppm, 9.989,.1345,1.347, 9.894, 10.08
Ni2316,231.604 {445},In2306,ppm, 1.002,.0051,.5069, .9980, 1.005
P_1782,178.284 {489},In2306,ppm, 1.102,.0024,.2203, 1.104, 1.101
Pb2203,220.353 {453},In2306,ppm, .9667,.0199,2.059, .9526, .9808
S_1820,182.034 {485},Y_2243,ppm, 15.08,.4618,3.062, 15.41, 14.76
Sb2068,206.833 {463},Y_2243,ppm, 1.040,.0016,.1537, 1.039, 1.042
Se1960,196.090 {472},Y_2243,ppm, 1.101,.0088,.8016, 1.095, 1.107
Si2516,251.611 {134},Y_3710,ppm, 1.064,.0046,.4347, 1.061, 1.067
Sn1899,189.989 {477},In2306,ppm, 1.141,.0078,.6828, 1.135, 1.146
Sr4215,421.552 { 80},Y_3710,ppm, .5268,.0013,.2516, .5259, .5278
Ti3349,334.904 {101},Y_3600,ppm, .9523,.0041,.4339, .9552, .9494
Tl1908,190.856 {477},In2306,ppm, .8104,.0047,.5747, .8071, .8137
V_2924,292.402 {115},Y_3600,ppm, 1.044,.0060,.5726, 1.048, 1.040
Zn2062,206.200 {463},In2306,ppm, .9770,.0076,.7766, .9716, .9823

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 791.14,7.2939,.92195,785.98,796.30
In2306,230.606 {446},Cts/S, 11783.,31.822,.27006,11806.,11761.
Y_2243,224.306 {450},Cts/S, 21609.,16.700,.07729,21620.,21597.
Y_3600,360.073 { 94},Cts/S, 169090.,837.56,.49533,168500.,169680.
Y_3710,371.030 { 91},Cts/S, 46716.,223.26,.47790,46559.,46874.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=ICSA 989860
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:13:14
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0033,.0004,11.17, -.0036, -.0031
Al3082,308.215 {109},In2306,ppm, 509.1,18.04,3.544, 496.3, 521.8
As1890,189.042 {478},Y_2243,ppm, -.0097,.0021,21.33, -.0112, -.0082
B_2496,249.678 {135},Y_3710,ppm, -.0022,.0008,37.21, -.0016, -.0028
Ba4554,455.403 { 74},Y_3710,ppm, .0004,.0001,18.74, .0003, .0004
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,7.696, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, 528.6,30.39,5.749, 507.1, 550.1
Ca3181,318.128 {106},In2306,ppm, 481.7,17.35,3.602, 469.4, 494.0
Cd2288,228.802 {447},Y_2243,ppm, .0005,.0002,46.26, .0003, .0006
Co2286,228.616 {447},In2306,ppm, -.0001,.0009,1220., -.0007, .0006
Cr2677,267.716 {126},Y_3600,ppm, .0027,.0002,7.570, .0028, .0026
Cu3247,324.754 {104},Y_3600,ppm, .0073,.0009,12.83, .0080, .0067
Fe2404,240.488 {140},In2306,ppm, 190.1,7.067,3.717, 185.1, 195.1
K_7664,766.490 { 44},Y_3710,ppm, -.0455,.0152,33.49, -.0347, -.0562
K_7698,769.896 { 44},Y_3710,ppm, -.2908,.0205,7.048, -.3053, -.2764
Li6707,670.784 { 50},Y_3710,ppm, .0168,.0012,7.046, .0176, .0160
Mg2790,279.079 {121},Y_3710,ppm, 475.0,12.19,2.567, 466.3, 483.6
Mn2576,257.610 {131},Y_3600,ppm, -.0044,.0004,9.065, -.0041, -.0046
Mn2576-2,257.610 {131}2,Y_3710,ppm, -.0035,.0012,33.14, -.0043, -.0027
Mo2020,202.030 {467},Y_2243,ppm, .0014,.0012,85.05, .0006, .0023
Na5895,589.592 { 57},Y_3710,ppm, .3504,.0092,2.624, .3439, .3569
Na8183,818.326 { 41},Y_3710,ppm, .1749,.0091,5.187, .1685, .1814
Ni2316,231.604 {445},In2306,ppm, .0060,.0005,9.108, .0056, .0063
P_1782,178.284 {489},In2306,ppm, .0033,.0024,74.30, .0050, .0015
Pb2203,220.353 {453},In2306,ppm, .0073,.0000,.3832, .0073, .0073
S_1820,182.034 {485},Y_2243,ppm, 15.49,.1805,1.166, 15.36, 15.61
Sb2068,206.833 {463},Y_2243,ppm, -.0085,.0019,22.87, -.0099, -.0071
Se1960,196.090 {472},Y_2243,ppm, .0030,.0012,39.84, .0038, .0021
Si2516,251.611 {134},Y_3710,ppm, .0013,.0028,211.4, -.0007, .0033
Sn1899,189.989 {477},In2306,ppm, .0063,.0006,9.204, .0059, .0067
Sr4215,421.552 { 80},Y_3710,ppm, .0022,.0001,6.630, .0021, .0023
Ti3349,334.904 {101},Y_3600,ppm, .0029,.0002,6.902, .0028, .0031
Tl1908,190.856 {477},In2306,ppm, .0024,.0027,111.6, .0005, .0043
V_2924,292.402 {115},Y_3600,ppm, .0000,.0001,537.1, -.0001, .0001
Zn2062,206.200 {463},In2306,ppm, .0035,.0004,12.44, .0032, .0038

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 803.62,21.450,2.6692,818.79,788.45
In2306,230.606 {446},Cts/S, 11902.,7.2577,.06098,11907.,11897.
Y_2243,224.306 {450},Cts/S, 21699.,7.7592,.03576,21705.,21694.
Y_3600,360.073 { 94},Cts/S, 169330.,575.46,.33985,168920.,169730.
Y_3710,371.030 { 91},Cts/S, 47278.,708.69,1.4990,47780.,46777.

[Sample Header]

Method=ICP6500Metals_TRY3(v1100)
SampleName=CCV 1007271
Username=admin
Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:48:15
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .3096,.0005,.1668, .3099, .3092
Al3082,308.215 {109},In2306,ppm, 2.331,.0354,1.517, 2.306, 2.356
As1890,189.042 {478},Y_2243,ppm, .5132,.0040,.7887, .5161, .5104
B_2496,249.678 {135},Y_3710,ppm, .4671,.0042,.8978, .4701, .4641
Ba4554,455.403 { 74},Y_3710,ppm, .4791,.0023,.4731, .4775, .4807
Be3130,313.042 {108},Y_3710,ppm, .4784,.0004,.0827, .4781, .4787
Ca3158,315.887 {107},In2306,ppm, 13.97,.1852,1.326, 13.83, 14.10
Ca3181,318.128 {106},In2306,ppm, 11.80,.1655,1.403, 11.68, 11.92
Cd2288,228.802 {447},Y_2243,ppm, .4927,.0012,.2510, .4918, .4935
Co2286,228.616 {447},In2306,ppm, .4348,.0006,.1300, .4344, .4352
Cr2677,267.716 {126},Y_3600,ppm, .5051,.0033,.6500, .5074, .5028
Cu3247,324.754 {104},Y_3600,ppm, .5153,.0004,.0696, .5151, .5156
Fe2404,240.488 {140},In2306,ppm, 2.379,.0194,.8145, 2.365, 2.392
K_7664,766.490 { 44},Y_3710,ppm, 11.64,.0408,.3501, 11.61, 11.67
K_7698,769.896 { 44},Y_3710,ppm, 12.02,.0115,.0958, 12.02, 12.03
Li6707,670.784 { 50},Y_3710,ppm, .4858,.0017,.3563, .4845, .4870
Mg2790,279.079 {121},Y_3710,ppm, 4.645,.0289,.6228, 4.665, 4.624
Mn2576,257.610 {131},Y_3600,ppm, .5962,.0038,.6344, .5989, .5936
Mn2576-2,257.610 {131}2,Y_3710,ppm, .5805,.0004,.0774, .5808, .5802
Mo2020,202.030 {467},Y_2243,ppm, .6401,.0016,.2507, .6389, .6412
Na5895,589.592 { 57},Y_3710,ppm, 12.21,.0143,.1172, 12.20, 12.22
Na8183,818.326 { 41},Y_3710,ppm, 11.90,.0271,.2274, 11.88, 11.92
Ni2316,231.604 {445},In2306,ppm, .4673,.0011,.2327, .4665, .4681
P_1782,178.284 {489},In2306,ppm, .4530,.0019,.4303, .4516, .4544
Pb2203,220.353 {453},In2306,ppm, .4584,.0003,.0586, .4586, .4583
S_1820,182.034 {485},Y_2243,ppm, -188.4,1.357,.7202, -187.4, -189.4
Sb2068,206.833 {463},Y_2243,ppm, .5229,.0008,.1470, .5223, .5234
Se1960,196.090 {472},Y_2243,ppm, .5346,.0002,.0347, .5345, .5348
Si2516,251.611 {134},Y_3710,ppm, .9820,.0008,.0865, .9814, .9826
Sn1899,189.989 {477},In2306,ppm, .5480,.0010,.1808, .5473, .5487
Sr4215,421.552 { 80},Y_3710,ppm, .2550,.0000,.0062, .2550, .2550
Ti3349,334.904 {101},Y_3600,ppm, .4710,.0004,.0899, .4713, .4707
Tl1908,190.856 {477},In2306,ppm, .4287,.0003,.0593, .4289, .4286
V_2924,292.402 {115},Y_3600,ppm, .5351,.0010,.1955, .5358, .5343
Zn2062,206.200 {463},In2306,ppm, .4304,.0008,.1944, .4298, .4310

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 886.45,2.0120,.22698,887.88,885.03
In2306,230.606 {446},Cts/S, 16209.,36.302,.22396,16235.,16183.
Y_2243,224.306 {450},Cts/S, 24589.,91.158,.37073,24653.,24525.
Y_3600,360.073 { 94},Cts/S, 195170.,83.855,.04297,195110.,195230.
Y_3710,371.030 { 91},Cts/S, 48459.,304.01,.62737,48244.,48674.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=LLCCV
Username=admin

Comment=
Custom ID1=
Custom ID2=
Custom ID3=
Run Time=10/25/2012 12:50:21
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, .0057,.0007,12.10, .0052, .0062
Al3082,308.215 {109},In2306,ppm, .0790,.0005,.5877, .0786, .0793
As1890,189.042 {478},Y_2243,ppm, .0080,.0006,8.057, .0075, .0084
B_2496,249.678 {135},Y_3710,ppm, .0071,.0019,26.80, .0057, .0084
Ba4554,455.403 { 74},Y_3710,ppm, .0096,.0000,.0423, .0096, .0096
Be3130,313.042 {108},Y_3710,ppm, .0049,.0000,.7422, .0049, .0050
Ca3158,315.887 {107},In2306,ppm, .1166,.0010,.8688, .1173, .1159
Ca3181,318.128 {106},In2306,ppm, .0933,.0060,6.405, .0891, .0976
Cd2288,228.802 {447},Y_2243,ppm, .0050,.0001,1.941, .0049, .0051
Co2286,228.616 {447},In2306,ppm, .0086,.0000,.1302, .0086, .0086
Cr2677,267.716 {126},Y_3600,ppm, .0100,.0006,6.260, .0105, .0096
Cu3247,324.754 {104},Y_3600,ppm, .0166,.0006,3.620, .0170, .0162
Fe2404,240.488 {140},In2306,ppm, .0971,.0042,4.285, .1000, .0941
K_7664,766.490 { 44},Y_3710,ppm, .5538,.0095,1.713, .5605, .5470
K_7698,769.896 { 44},Y_3710,ppm, .6839,.0313,4.579, .7060, .6617
Li6707,670.784 { 50},Y_3710,ppm, .0039,.0004,9.749, .0042, .0037
Mg2790,279.079 {121},Y_3710,ppm, .1029,.0007,.6741, .1034, .1024
Mn2576,257.610 {131},Y_3600,ppm, .0123,.0006,4.925, .0127, .0119
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0121,.0004,3.427, .0123, .0118
Mo2020,202.030 {467},Y_2243,ppm, .0140,.0003,2.313, .0137, .0142
Na5895,589.592 { 57},Y_3710,ppm, .7159,.0047,.6496, .7192, .7127
Na8183,818.326 { 41},Y_3710,ppm, .7270,.0661,9.097, .7737, .6802
Ni2316,231.604 {445},In2306,ppm, .0092,.0000,.2273, .0093, .0092
P_1782,178.284 {489},In2306,ppm, -.0020,.0004,18.96, -.0023, -.0018
Pb2203,220.353 {453},In2306,ppm, .0099,.0000,.1698, .0099, .0099
S_1820,182.034 {485},Y_2243,ppm, -2.202,.0613,2.783, -2.158, -2.245
Sb2068,206.833 {463},Y_2243,ppm, .0116,.0011,9.228, .0108, .0123
Se1960,196.090 {472},Y_2243,ppm, .0116,.0008,6.569, .0121, .0110
Si2516,251.611 {134},Y_3710,ppm, .0103,.0059,56.89, .0062, .0145
Sn1899,189.989 {477},In2306,ppm, .0096,.0010,10.18, .0103, .0089
Sr4215,421.552 { 80},Y_3710,ppm, .0051,.0002,3.008, .0050, .0052
Ti3349,334.904 {101},Y_3600,ppm, .0095,.0000,.0502, .0095, .0095
Tl1908,190.856 {477},In2306,ppm, .0113,.0022,19.16, .0098, .0128
V_2924,292.402 {115},Y_3600,ppm, .0111,.0002,1.851, .0113, .0110
Zn2062,206.200 {463},In2306,ppm, .0086,.0000,.1131, .0086, .0086

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 904.43,4.5360,.50152,907.64,901.23
In2306,230.606 {446},Cts/S, 17420.,9.3853,.05388,17426.,17413.
Y_2243,224.306 {450},Cts/S, 25141.,38.736,.15407,25169.,25114.
Y_3600,360.073 { 94},Cts/S, 200540.,242.07,.12071,200360.,200710.
Y_3710,371.030 { 91},Cts/S, 48863.,138.44,.28331,48961.,48766.

[Sample Header]
Method=ICP6500Metals_TRY3(v1100)
SampleName=CCB
Username=admin
Comment=
Custom ID1=
Custom ID2=

Custom ID3=
Run Time=10/25/2012 12:52:41
Sample Type=Unk
Mode=CONC
CorrFactor=1.000
Repeats=2

[Results]
Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,ppm, -.0005,.0000,4.870, -.0006, -.0005
Al3082,308.215 {109},In2306,ppm, -.0221,.0077,34.91, -.0275, -.0166
As1890,189.042 {478},Y_2243,ppm, -.0019,.0001,6.839, -.0020, -.0018
B_2496,249.678 {135},Y_3710,ppm, .0003,.0012,365.7, .0012, -.0005
Ba4554,455.403 { 74},Y_3710,ppm, .0000,.0000,116.0, .0000, -.0001
Be3130,313.042 {108},Y_3710,ppm, .0001,.0000,34.98, .0001, .0001
Ca3158,315.887 {107},In2306,ppm, -.0048,.0039,80.06, -.0076, -.0021
Ca3181,318.128 {106},In2306,ppm, .0119,.0120,100.2, .0204, .0035
Cd2288,228.802 {447},Y_2243,ppm, .0000,.0000,24.29, .0000, -.0001
Co2286,228.616 {447},In2306,ppm, .0000,.0000,293.5, .0000, .0000
Cr2677,267.716 {126},Y_3600,ppm, -.0003,.0003,95.59, -.0005, -.0001
Cu3247,324.754 {104},Y_3600,ppm, .0060,.0010,16.57, .0053, .0067
Fe2404,240.488 {140},In2306,ppm, .0023,.0026,113.9, .0004, .0042
K_7664,766.490 { 44},Y_3710,ppm, -.0046,.0063,138.1, -.0001, -.0090
K_7698,769.896 { 44},Y_3710,ppm, .1146,.0076,6.594, .1092, .1199
Li6707,670.784 { 50},Y_3710,ppm, -.0006,.0004,66.76, -.0009, -.0003
Mg2790,279.079 {121},Y_3710,ppm, .0000,.0002,1950., .0001, -.0001
Mn2576,257.610 {131},Y_3600,ppm, .0001,.0000,40.45, .0001, .0001
Mn2576-2,257.610 {131}2,Y_3710,ppm, .0005,.0003,51.36, .0003, .0007
Mo2020,202.030 {467},Y_2243,ppm, -.0001,.0002,195.9, -.0002, .0000
Na5895,589.592 { 57},Y_3710,ppm, .1168,.0068,5.851, .1216, .1119
Na8183,818.326 { 41},Y_3710,ppm, .2599,.1697,65.29, .3799, .1399
Ni2316,231.604 {445},In2306,ppm, .0001,.0001,64.06, .0002, .0001
P_1782,178.284 {489},In2306,ppm, -.0017,.0003,16.25, -.0019, -.0015
Pb2203,220.353 {453},In2306,ppm, .0002,.0002,85.56, .0003, .0001
S_1820,182.034 {485},Y_2243,ppm, -1.982,.1961,9.896, -2.121, -1.843
Sb2068,206.833 {463},Y_2243,ppm, .0001,.0005,554.0, .0005, -.0003
Se1960,196.090 {472},Y_2243,ppm, .0000,.0001,131.0, -.0001, .0000
Si2516,251.611 {134},Y_3710,ppm, -.0025,.0077,301.2, -.0080, .0029
Sn1899,189.989 {477},In2306,ppm, -.0009,.0001,11.43, -.0010, -.0009
Sr4215,421.552 { 80},Y_3710,ppm, .0000,.0000,224.0, .0000, -.0001
Ti3349,334.904 {101},Y_3600,ppm, -.0003,.0001,29.27, -.0004, -.0003
Tl1908,190.856 {477},In2306,ppm, .0010,.0003,29.37, .0012, .0008
V_2924,292.402 {115},Y_3600,ppm, -.0003,.0000,5.575, -.0003, -.0003
Zn2062,206.200 {463},In2306,ppm, -.0001,.0000,30.66, -.0001, -.0002

[Internal Standards]
Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 906.14,3.0290,.33428,903.99,908.28
In2306,230.606 {446},Cts/S, 17472.,58.533,.33501,17431.,17513.
Y_2243,224.306 {450},Cts/S, 25111.,132.94,.52942,25017.,25205.
Y_3600,360.073 { 94},Cts/S, 202720.,1476.2,.72821,203760.,201670.
Y_3710,371.030 { 91},Cts/S, 49135.,65.591,.13349,49089.,49182.

Method: 20076010 10/25/12 07:44:28 AM page 1

METHOD INFORMATION **

Sample Introduction Device: Normal
Calibration Mode: Concentration

Default Setup:

Number of Repeats : 2	Auto-store Analysis Data? Yes
Flush Time (sec) : 45.0	Auto-store Stdzn Data? Yes
Auto-Increment Sample Names? No	Store Individual Repeats? No
	Auto-print Analysis Data? Yes
	Auto-print Stdzn Report : +Readback
	Condensed Print Format? Yes

Default File Names:

Analysis Data File : A102512	Autosampler Table : TRAVIS
	Sample Limits Table : LCTAB
Calibration Data File : CALDATA	Blank Limits Table : BLCTAB
Calibration Stds Table : CALSTDS	QC Check Table : LCTAB

♀
Standardization Rpt. 10/25/12 08:33:59 AM page 1

Method: 20076010 Standard: S0
Run Time: 10/25/12 08:30:35

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avge	.01159	.00218	-.00217	.00003	-.11774	.00204	.00437
SDev	.00018	.00114	.00231	.00051	.00021	.00441	.00276
%RSD	1.5731	52.091	106.42	1733.5	.17754	216.08	63.030
#1	.01147	.00138	-.00380	-.00033	-.11788	-.00108	.00242
#2	.01172	.00298	-.00054	.00039	-.11759	.00516	.00632

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avge	.00896	.00016	-.00058	.00734	-.00013	.09089	.05089
SDev	.00002	.00095	.00006	.00030	.00070	.00026	.00008
%RSD	.24932	582.49	10.631	4.0713	521.67	.28539	.16589
#1	.00898	-.00051	-.00054	.00712	.00036	.09070	.05083
#2	.00895	.00084	-.00063	.00755	-.00063	.09107	.05095

Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avge	.00010	.00016	.00411	.58682	.05896	-.00043	-.00200
SDev	.00015	.00032	.00033	.00044	.00137	.00010	.00046
%RSD	141.42	192.63	7.9625	.07473	2.3312	24.141	22.976
#1	.00000	.00039	.00434	.58651	.05798	-.00036	-.00168
#2	.00021	-.00006	.00388	.58713	.05993	-.00051	-.00233

Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avge	.30544	-.00888	-.00172	.00146	-.00613	-.00007	.00753
SDev	.00125	.00243	.00065	.00114	.00111	.00019	.00045
%RSD	.40787	27.382	37.891	77.752	18.182	254.00	5.9243
#1	.30456	-.01060	-.00126	.00066	-.00691	-.00021	.00721
#2	.30632	-.00716	-.00218	.00227	-.00534	.00006	.00785

Elem	2203/1	2203/2	1960/1	1960/2

Page 1

Avge	.00552	-.00142	-.00940	.00279
SDev	.00172	.00176	.00089	.00107
%RSD	31.281	123.62	9.4197	38.339
#1	.00674	-.00266	-.00877	.00204
#2	.00430	-.00018	-.01002	.00355

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33465	--	--	--	--	--	--
SDev	83.43860	--	--	--	--	--	--
%RSD	.2493309	--	--	--	--	--	--
#1	33406	--	--	--	--	--	--
#2	33524	--	--	--	--	--	--

♀

Method: 20076010 Standard: STD
Run Time: 10/25/12 08:34:34

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avge	1.1308	1.3094	1.6121	14.351	28.884	9.4926	17.211
SDev	.0210	.0249	.0312	.259	.574	.1828	.331
%RSD	1.8564	1.9027	1.9381	1.8074	1.9878	1.9257	1.9216
#1	1.1160	1.2918	1.5900	14.168	28.478	9.3633	16.977
#2	1.1457	1.3270	1.6342	14.534	29.290	9.6218	17.445

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avge	3.4580	2.6586	1.5761	1.6897	5.9097	23.036	1.5863
SDev	.0678	.0520	.0294	.0307	.1141	.429	.0305
%RSD	1.9596	1.9563	1.8679	1.8187	1.9311	1.8603	1.9246
#1	3.4100	2.6218	1.5553	1.6679	5.8290	22.733	1.5647
#2	3.5059	2.6953	1.5970	1.7114	5.9904	23.339	1.6079

Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avge	2.2915	2.2158	8.8423	3.3130	1.1977	.93427	.17578
SDev	.0437	.0492	.1697	.0565	.0174	.01688	.00324
%RSD	1.9069	2.2218	1.9197	1.7065	1.4497	1.8070	1.8438
#1	2.2606	2.1810	8.7223	3.2731	1.1854	.92234	.17349
#2	2.3224	2.2506	8.9623	3.3530	1.2100	.94621	.17807

Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avge	18.520	48.333	.42076	3.3723	13.205	.68490	4.4277
SDev	.343	.888	.00922	.0674	.251	.01330	.0815
%RSD	1.8537	1.8364	2.1910	1.9983	1.9006	1.9421	1.8410
#1	18.277	47.705	.41424	3.3247	13.027	.67549	4.3701
#2	18.762	48.960	.42727	3.4200	13.382	.69431	4.4853

Elem	2203/1	2203/2	1960/1	1960/2
Avge	4.4113	9.5575	1.4891	1.4445
SDev	.0813	.1642	.0249	.0271
%RSD	1.8431	1.7185	1.6722	1.8781
#1	4.3538	9.4414	1.4715	1.4253
#2	4.4688	9.6737	1.5067	1.4637

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33285	--	--	--	--	--	--
SDev	509.1169	--	--	--	--	--	--
%RSD	1.529569	--	--	--	--	--	--
#1	33645	--	--	--	--	--	--
#2	32925	--	--	--	--	--	--

♀

Method: 20076010 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	STD	S0	17.8695	-.207178	10/25/12 08:34:34
Sb2068	206.838	STD	S0	1.53506	-.003346	10/25/12 08:34:34
As1890	189.042	STD	S0	1.22697	.002662	10/25/12 08:34:34
Ba4934	493.409	STD	S0	.139363	-.000004	10/25/12 08:34:34
Be3130	313.042	STD	S0	.034502	.004062	10/25/12 08:34:34
B_2496	249.678	STD	S0	.210736	-.000430	10/25/12 08:34:34
Cd2265	226.502	STD	S0	.058232	-.000255	10/25/12 08:34:34
Ca3179	317.933	STD	S0	5.79879	-.051984	10/25/12 08:34:34
Cr2677	267.716	STD	S0	.752333	-.000123	10/25/12 08:34:34
Co2286	228.616	STD	S0	1.26845	.000739	10/25/12 08:34:34
Cu3247	324.753	STD	S0	1.18819	-.008716	10/25/12 08:34:34
Fe2714	271.441	STD	S0	3.24408	.000433	10/25/12 08:34:34
Li6707	670.784	STD	S0	.087166	-.007922	10/25/12 08:34:34
Pb2203	220.353		NONE	.000000	.000000	*10/25/12 08:34:34
Se1960	196.026		NONE	.000000	.000000	*10/25/12 08:34:34
Mg2790	279.078	STD	S0	13.0260	-.662879	10/25/12 08:34:34
Mn2576	257.610	STD	S0	.873007	-.000091	10/25/12 08:34:34
Mo2020	202.030	STD	S0	.902680	-.000149	10/25/12 08:34:34
Ni2316	231.604	STD	S0	.226290	-.000930	10/25/12 08:34:34
K_7664	766.491	STD	S0	7.33618	-4.30503	10/25/12 08:34:34
Si2881	288.158	STD	S0	1.74018	-.102593	10/25/12 08:34:34
Ag3280	328.068	STD	S0	1.07015	.000464	10/25/12 08:34:34
Na3302	330.232	STD	S0	112.498	.225167	10/25/12 08:34:34
Na5889	588.995	STD	S0	1.09804	-.335383	10/25/12 08:34:34
Sr4215	421.552	STD	S0	.020696	.000184	10/25/12 08:34:34
Tl1908	190.864	STD	S0	4.74928	.008156	10/25/12 08:34:34
Sn1899	189.989	STD	S0	.593324	-.000868	10/25/12 08:34:34
Ti3349	334.941	STD	S0	.151392	.000928	10/25/12 08:34:34
V_2924	292.402	STD	S0	2.89184	.000217	10/25/12 08:34:34
Zn2138	213.856	STD	S0	.453025	-.003411	10/25/12 08:34:34
2203/1	220.351	STD	S0	.456598	-.002518	10/25/12 08:34:34
2203/2	220.352	STD	S0	.208445	.000296	10/25/12 08:34:34
1960/1	196.021	STD	S0	1.33633	.012557	10/25/12 08:34:34
1960/2	196.022	STD	S0	1.38438	-.003866	10/25/12 08:34:34

Method: 20076010

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	S0	.000000	.000000	-.000000
		STD	2.00000	2.00666	-.006658

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	S0	.000000	.000000	-.000000
		STD	2.00000	1.98066	.019338

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4934	493.409	S0	.000000	-.000000	.000000

		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	S0	.000000	-.000000	.000000
		STD	1.00000	1.00064	-.000640

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	S0	.000000	-.000000	.000000
		STD	1.00000	1.00198	-.001980

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	S0	.000000	-.000000	.000000
		STD	2.00000	1.99894	.001060

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	S0	.000000	-.000000	.000000
		STD	20.0000	19.1720	.828014

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li6707	670.784	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000

			.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
			.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	.000000	-.000000
		STD	2.00000	2.00038	-.000380

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si2881	288.158	S0	.000000	-.000000	.000000
		STD	2.00000	1.98159	.018410

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	.000000	-.000000
		STD	1.00000	1.00027	-.000274

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na3302	330.232	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	-.000000	.000000
		STD	1.00000	1.00048	-.000480

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration

Tl1908	190.864	S0	.000000	-.000000	.000000
		STD	2.00000	2.00644	-.006442

♀

Standardization Readback Report 10/25/12 08:38:08 AM page 6

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	S0	.000000	-.000000	.000000
		STD	2.00000	1.98084	.019164

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	-.000000	.000000
		STD	2.00000	2.00245	-.002452

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	S0	.000000	-.000000	.000000
		STD	2.00000	2.01167	-.011672

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	S0	.000000	.000000	-.000000
		STD	2.00000	1.99251	.007490

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	S0	.000000	.000000	-.000000
		STD	2.00000	2.00251	-.002508

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	S0	.000000	.000000	-.000000
		STD	2.00000	1.99584	.004162

♀

Analysis Report 10/25/12 08:46:59 AM page 1

Method: 20076010 Sample Name: S2 met0912cal_00001 Operator: DCL
Run Time: 10/25/12 08:43:11
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.169	2.0083	2.0072	2.0134	1.0115	2.0108	1.0035
SDev	.157	.0145	.0089	.0095	.0048	.0139	.0053
%RSD	.77765	.72232	.44274	.47167	.47295	.68985	.52990
#1	20.279	2.0185	2.0135	2.0201	1.0149	2.0206	1.0073
#2	20.058	1.9980	2.0009	2.0066	1.0081	2.0010	.99976

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.167	2.0201	2.0167	2.0171	20.176	2.0187	2.0064
SDev	.091	.0086	.0095	.0137	.146	.0123	.0111
%RSD	.45071	.42494	.47073	.68015	.72473	.60727	.55225
#1	20.232	2.0261	2.0234	2.0268	20.280	2.0274	2.0142
#2	20.103	2.0140	2.0100	2.0074	20.073	2.0100	1.9986

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0054	20.160	2.0162	2.0150	2.0202	20.261	1.9979
SDev	.0052	.090	.0093	.0055	.0125	.169	.0166
%RSD	.26128	.44402	.46147	.27273	.61761	.83646	.82846
#1	2.0091	20.223	2.0227	2.0189	2.0290	20.381	2.0096
#2	2.0017	20.096	2.0096	2.0111	2.0113	20.141	1.9862

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0086	20.274	20.195	1.0048	2.0018	2.0170	2.0168
SDev	.0067	.338	.152	.0052	.0092	.0143	.0087
%RSD	.66628	1.6675	.75023	.52227	.45844	.70866	.43295
#1	1.0133	20.513	20.302	1.0086	2.0083	2.0271	2.0229
#2	1.0038	20.035	20.088	1.0011	1.9953	2.0069	2.0106

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0165	2.0093	2.0093	2.0049	2.0057	2.0052
SDev	.0090	.0116	.0125	.0104	.0107	.0025
%RSD	.44840	.57603	.62117	.51771	.53556	.12410
#1	2.0229	2.0175	2.0181	2.0123	2.0132	2.0070
#2	2.0101	2.0012	2.0005	1.9976	1.9981	2.0035

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32928	--	--	--	--	--	--
SDev	190.2117	--	--	--	--	--	--
%RSD	.5776507	--	--	--	--	--	--

Analysis Report 10/25/12 08:46:59 AM page 2

#1	32794	--	--	--	--	--	--
#2	33063	--	--	--	--	--	--

Method: 20076010 Sample Name: ICV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 08:47:03
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5022	.49434	.49729	.49470	.50349	.50002	.49714
SDev	.0003	.00028	.00080	.00057	.00042	.00057	.00034
%RSD	.01302	.05729	.16104	.11590	.08436	.11440	.06812

#1	2.5019	.49414	.49673	.49511	.50379	.50042	.49738
#2	2.5024	.49454	.49786	.49430	.50319	.49962	.49690
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.443	.50144	.50274	.50090	2.5025	.45871	.49612
SDev	.010	.00053	.00023	.00012	.0028	.00003	.00176
%RSD	.08423	.10527	.04551	.02332	.11204	.00586	.35564
#1	12.451	.50181	.50290	.50082	2.5006	.45873	.49487
#2	12.436	.50107	.50258	.50099	2.5045	.45869	.49737
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49884	4.9916	.49883	.51062	.49946	12.154	.94561
SDev	.00130	.0052	.00039	.00141	.00096	.006	.00048
%RSD	.26137	.10333	.07731	.27554	.19289	.04635	.05032
#1	.49792	4.9953	.49910	.51161	.50014	12.150	.94594
#2	.49977	4.9880	.49855	.50962	.49878	12.158	.94527
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24908	12.308	12.000	.24593	.51243	.50891	.49962
SDev	.00003	.096	.005	.00008	.00193	.00292	.00047
%RSD	.01133	.78315	.03926	.03332	.37625	.57310	.09326
#1	.24910	12.240	11.996	.24599	.51106	.51098	.49995
#2	.24906	12.376	12.003	.24587	.51379	.50685	.49929
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.50624	.50478	.49640	.49598	.49975	.49845	
SDev	.00077	.00059	.00226	.00152	.00286	.00052	
%RSD	.15202	.11729	.45611	.30536	.57235	.10542	
#1	.50678	.50436	.49480	.49491	.49773	.49808	
#2	.50569	.50520	.49800	.49706	.50177	.49882	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32922	--	--	--	--	--	--
SDev	.7071068	--	--	--	--	--	--
%RSD	.0021479	--	--	--	--	--	--
#1	32921	--	--	--	--	--	--
#2	32922	--	--	--	--	--	--

Method: 20076010 Sample Name: ICBIS Operator: DCL
Run Time: 10/25/12 08:50:54
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00423	.00201	.00262	.00009	.00002	.00327	.00018
SDev	.00263	.00087	.00042	.00005	.00003	.00020	.00021

%RSD	62.132	43.218	15.868	56.797	158.68	6.2406	118.18
#1	.00609	.00262	.00233	.00013	-.00000	.00342	.00003
#2	.00237	.00140	.00292	.00005	.00005	.00313	.00033

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00143	-.00004	.00047	.00008	.02796	-.00011	.00010
SDev	.00115	.00011	.00049	.00003	.01916	.00011	.00101
%RSD	80.231	247.97	103.16	40.700	68.516	94.162	1010.2
#1	.00062	-.00012	.00013	.00006	.01441	-.00019	-.00061
#2	.00224	.00003	.00081	.00010	.04151	-.00004	.00081

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	-.00758	.00004	.00281	.00074	-.05049	.00267
SDev	.00157	.00901	.00000	.00051	.00050	.02751	.00311
%RSD	242.30	118.77	3.9430	18.103	67.514	54.487	116.37
#1	.00176	-.01395	.00004	.00317	.00039	-.06994	.00487
#2	-.00046	-.00121	.00004	.00245	.00109	-.03104	.00047

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.09820	-.00536	.00004	.00419	.00073	.00039
SDev	.00061	.14649	.00434	.00002	.00217	.00130	.00028
%RSD	128.29	149.17	80.934	49.910	51.788	177.86	69.946
#1	.00004	-.00538	-.00843	.00002	.00572	-.00019	.00059
#2	.00091	.20179	-.00229	.00005	.00265	.00165	.00020

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.00001	.00069	-.00019	.00348	-.00077
SDev	.00001	.00023	.00092	.00105	.00225	.00123
%RSD	1.7554	1834.3	133.83	537.94	64.710	160.14
#1	.00033	-.00015	.00004	-.00094	.00507	.00010

#2	.00033	.00017	.00134	.00055	.00189	-.00164

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33432	--	--	--	--	--	--
SDev	355.6747	--	--	--	--	--	--
%RSD	1.063859	--	--	--	--	--	--
#1	33181	--	--	--	--	--	--
#2	33684	--	--	--	--	--	--

Method: 20076010 Sample Name: CRI met0912low_00006 Operator: DCL
Run Time: 10/25/12 08:54:44
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10661	.00732	.01210	.01016	.00507	.01205	.00500

SDev	.00026	.00137	.00023	.00014	.00001	.00014	.00017
%RSD	.24787	18.672	1.8925	1.3866	.23321	1.1858	3.3422
#1	.10680	.00636	.01226	.01026	.00506	.01195	.00512
#2	.10642	.00829	.01194	.01006	.00507	.01215	.00488

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09183	.01006	.00975	.01040	.09908	.00858	.00982
SDev	.00054	.00040	.00002	.00019	.00422	.00009	.00014
%RSD	.58498	3.9816	.18851	1.8176	4.2581	1.0332	1.4629
#1	.09221	.01034	.00977	.01054	.10206	.00864	.00971
#2	.09145	.00977	.00974	.01027	.09610	.00852	.00992

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01159	.08454	.01001	.01133	.00919	.47007	.00749
SDev	.00177	.00289	.00009	.00018	.00002	.01282	.00283
%RSD	15.274	3.4233	.93915	1.6367	.18957	2.7283	37.709
#1	.01033	.08658	.01007	.01120	.00918	.47914	.00949
#2	.01284	.08249	.00994	.01146	.00920	.46101	.00550

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00476	.49952	.52075	.00507	.01335	.00938	.01024
SDev	.00019	.03368	.00221	.00004	.00219	.00108	.00011
%RSD	3.9665	6.7419	.42401	.81501	16.382	11.534	1.0245
#1	.00489	.52334	.52231	.00509	.01180	.01014	.01032
#2	.00463	.47571	.51919	.00504	.01489	.00861	.01017

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01022	.00917	.00920	.01012	.01083	.01196	♀

SDev	.00026	.00005	.00132	.00044	.00281	.00125
%RSD	2.5612	.55627	14.347	4.3954	25.972	10.429
#1	.01040	.00914	.00827	.01044	.00884	.01108
#2	.01003	.00921	.01014	.00981	.01282	.01284

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33628	--	--	--	--	--	--
SDev	68.58935	--	--	--	--	--	--
%RSD	.2039681	--	--	--	--	--	--
#1	33579	--	--	--	--	--	--
#2	33676	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSA metisa_00081 Operator: DCL
Run Time: 10/25/12 08:58:35
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	485.27	.00379	.00038	.00157	-.00024	.00048	-.00244
SDev	.31	.00292	.00153	.00001	.00000	.00134	.00003
%RSD	.06310	76.964	397.15	.50501	1.8673	277.79	1.3114
#1	485.49	.00585	.00147	.00157	-.00025	.00143	-.00246
#2	485.05	.00173	-.00070	.00156	-.00024	-.00047	-.00242

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	457.46	.00193	-.00060	.01358	196.35	.00335	.01069
SDev	.31	.00040	.00048	.00070	.29	.00001	.00109
%RSD	.06866	20.842	78.854	5.1272	.14997	.32892	10.160
#1	457.68	.00221	-.00027	.01407	196.55	.00336	.00993
#2	457.24	.00165	-.00094	.01309	196.14	.00334	.01146

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00865	514.25	-.00588	-.00036	-.00018	.22134	.01435
SDev	.00024	.08	.00004	.00042	.00063	.00523	.00011
%RSD	2.7883	.01459	.63845	118.04	349.32	2.3624	.75568
#1	-.00882	514.19	-.00585	-.00006	.00027	.21764	.01443
#2	-.00848	514.30	-.00590	-.00066	-.00063	.22503	.01428

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	-.00754	.18749	-.00895	-.04058	-.00096	-.00206
SDev	.00022	.15555	.00024	.00001	.00028	.00018	.00011
%RSD	66.518	2062.8	.12722	.10879	.69537	18.861	5.1586
#1	.00050	.10245	.18732	-.00896	-.04078	-.00108	-.00198
#2	.00018	-.11753	.18766	-.00894	-.04038	-.00083	-.00214

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00409	.00027	-.00493	.01851	.00221	-.01408
SDev	.00007	.00006	.00311	.00007	.00492	.00210
%RSD	1.6408	22.046	63.069	.40117	222.71	14.920
#1	.00414	.00023	-.00713	.01846	-.00127	-.01259
#2	.00404	.00031	-.00273	.01856	.00569	-.01556

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30226	--	--	--	--	--	--
SDev	36.06245	--	--	--	--	--	--
%RSD	.1193074	--	--	--	--	--	--
#1	30252	--	--	--	--	--	--
#2	30201	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb_00083 Operator: DCL
Run Time: 10/25/12 09:02:26
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	494.10	1.0320	1.0214	1.0262	.49839	1.0342	.46795
SDev	1.98	.0036	.0031	.0047	.00012	.0012	.00006
%RSD	.40174	.35146	.30748	.45638	.02405	.11362	.01384
#1	495.51	1.0346	1.0237	1.0295	.49831	1.0350	.46800
#2	492.70	1.0294	1.0192	1.0229	.49848	1.0334	.46790

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	461.49	.97864	.96390	1.0875	204.40	.57224	.97521
SDev	.10	.00013	.00029	.0039	.01	.00352	.00146
%RSD	.02250	.01359	.03037	.35960	.00273	.61496	.14937
#1	461.42	.97873	.96411	1.0903	204.40	.57473	.97418
#2	461.56	.97855	.96369	1.0847	204.39	.56975	.97624

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0086	521.25	.97326	1.0204	.94288	14.039	.97984
SDev	.0007	.20	.00039	.0019	.00092	.097	.00255
%RSD	.06564	.03829	.04030	.18556	.09754	.69048	.26054
#1	1.0091	521.11	.97354	1.0190	.94353	14.107	.98165
#2	1.0082	521.39	.97299	1.0217	.94223	13.970	.97804

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54638	11.604	13.063	.49450	.93507	1.0075	1.0058
SDev	.00196	.049	.096	.00205	.00520	.0003	.0024

%RSD	.35836	.41864	.73602	.41463	.55651	.03130	.23757
#1	.54777	11.639	13.131	.49595	.93140	1.0077	1.0074
#2	.54500	11.570	12.995	.49305	.93875	1.0073	1.0041

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0023	1.0212	.95994	.98285	1.0220	1.0020
SDev	.0002	.0005	.00581	.00072	.0032	.0006
%RSD	.01740	.05246	.60504	.07315	.31071	.05937
#1	1.0024	1.0216	.95584	.98335	1.0243	1.0015
#2	1.0021	1.0208	.96405	.98234	1.0198	1.0024

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30054	--	--	--	--	--	--
SDev	156.2706	--	--	--	--	--	--
%RSD	.5199574	--	--	--	--	--	--
#1	29944	--	--	--	--	--	--
#2	30165	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 09:06:16
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4572	.48409	.48831	.48486	.49335	.48784	.48707
SDev	.0141	.00292	.00242	.00226	.00275	.00348	.00291
%RSD	.57282	.60393	.49502	.46504	.55661	.71343	.59795
#1	2.4671	.48616	.49002	.48645	.49529	.49030	.48913
#2	2.4472	.48203	.48660	.48326	.49141	.48538	.48501

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.206	.49147	.49286	.49130	2.4604	.45135	.48561
SDev	.066	.00283	.00233	.00264	.0080	.00186	.00329
%RSD	.54344	.57656	.47326	.53815	.32611	.41197	.67707
#1	12.253	.49347	.49451	.49316	2.4661	.45267	.48793
#2	12.159	.48946	.49121	.48943	2.4547	.45004	.48328

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48710	4.9117	.48961	.49968	.49512	11.891	.92527
SDev	.00535	.0389	.00280	.00452	.00238	.069	.00597
%RSD	1.0982	.79173	.57276	.90400	.48156	.57775	.64549
#1	.49088	4.9392	.49159	.50288	.49680	11.939	.92949
#2	.48332	4.8842	.48762	.49649	.49343	11.842	.92104

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24475	12.301	11.814	.24148	.49543	.49965	.49089
SDev	.00092	.032	.051	.00106	.00422	.00538	.00210
%RSD	.37654	.26011	.42919	.43937	.85234	1.0759	.42745
#1	.24540	12.323	11.850	.24223	.49842	.50345	.49237
#2	.24410	12.278	11.778	.24073	.49245	.49584	.48941

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49622	.49589	.48457	.48613	.48880	.48631
SDev	.00305	.00325	.00651	.00168	.00533	.00536
%RSD	.61399	.65533	1.3436	.34485	1.0911	1.1018
#1	.49837	.49819	.48917	.48731	.49257	.49010
#2	.49406	.49359	.47997	.48494	.48503	.48252

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33525	--	--	--	--	--	--
SDev	200.8183	--	--	--	--	--	--
%RSD	.5990106	--	--	--	--	--	--
#1	33383	--	--	--	--	--	--
#2	33667	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 09:10:07
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00437	.00237	.00291	.00016	.00004	.00299	.00016
SDev	.00136	.00195	.00070	.00004	.00004	.00013	.00009
%RSD	31.127	82.437	24.135	24.111	105.34	4.2929	60.303
#1	.00341	.00375	.00340	.00019	.00006	.00308	.00022
#2	.00533	.00099	.00241	.00013	.00001	.00290	.00009

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00155	.00036	-.00026	.00022	.01161	-.00034	.00024
SDev	.00086	.00027	.00014	.00055	.01296	.00006	.00076
%RSD	55.169	75.290	51.870	248.61	111.61	18.974	320.99
#1	-.00095	.00055	-.00036	.00061	.02077	-.00029	.00077
#2	-.00216	.00017	-.00017	-.00017	.00245	-.00039	-.00030

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00303	-.01926	.00008	.00337	-.00024	-.11912	-.00002
SDev	.00237	.00488	.00006	.00081	.00029	.03627	.00033
%RSD	78.375	25.321	70.861	23.920	122.23	30.447	1425.3

#1	.00470	-.01581	.00012	.00394	-.00003	-.09348	.00021
#2	.00135	-.02271	.00004	.00280	-.00044	-.14477	-.00026

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	.00080	-.00937	.00007	.00335	-.00113	.00032
SDev	.00022	.09421	.00335	.00003	.00019	.00020	.00021
%RSD	48.669	11784.	35.738	47.016	5.6206	17.700	65.459
#1	.00030	.06742	-.00700	.00009	.00348	-.00128	.00047
#2	.00062	-.06582	-.01173	.00004	.00321	-.00099	.00017

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00014	-.00054	.00062	.00084	.00412
SDev	.00044	.00016	.00074	.00077	.00129	.00291
%RSD	78.905	121.22	137.40	123.72	154.44	70.639
#1	.00086	.00002	-.00002	.00117	.00175	.00618
#2	.00024	.00025	-.00106	.00008	-.00008	.00206

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33576	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.2463970	--	--	--	--	--	--
#1	33518	--	--	--	--	--	--
#2	33635	--	--	--	--	--	--

Method: 20076010 Sample Name: mb 600-91839/1-a Operator: DCL
Run Time: 10/25/12 09:13:58
Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00438	.00106	.00360	.00011	.00001	.00104	.00014
SDev	.00276	.00097	.00044	.00008	.00002	.00116	.00001
%RSD	63.056	91.191	12.126	74.883	257.94	111.67	5.2958
#1	.00634	.00175	.00329	.00016	-.00001	.00186	.00013
#2	.00243	.00038	.00390	.00005	.00003	.00022	.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02028	.00064	.00001	.00086	.03465	-.00025	.00116
SDev	.00014	.00003	.00024	.00001	.00202	.00002	.00046
%RSD	.70408	5.0431	3918.0	.75631	5.8275	6.7049	40.154
#1	-.02018	.00066	.00017	.00087	.03608	-.00026	.00148
#2	-.02038	.00061	-.00016	.00086	.03323	-.00024	.00083

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00285	-.01224	.00010	.00115	-.00051	-.06592	-.00146
SDev	.00151	.00093	.00006	.00044	.00056	.00653	.00182
%RSD	52.856	7.5889	53.353	37.945	108.94	9.9131	124.75
#1	.00392	-.01289	.00014	.00146	-.00012	-.07054	-.00017
#2	.00179	-.01158	.00006	.00084	-.00091	-.06130	-.00274

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00051	.10682	-.00101	.00001	.00048	.03047	.00003
SDev	.00025	.00228	.00003	.00001	.00230	.00141	.00010
%RSD	48.278	2.1327	2.8499	136.33	473.95	4.6397	271.54
#1	.00034	.10843	-.00103	.00002	-.00114	.03147	.00010
#2	.00069	.10520	-.00099	.00000	.00211	.02947	-.00003

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	-.00111	.00336	.00005	.00121	.00367
SDev	.00037	.00009	.00008	.00066	.00260	.00096
%RSD	117.31	8.4642	2.3476	1279.0	214.22	26.223
#1	.00057	-.00117	.00342	.00052	.00305	.00435
#2	.00005	-.00104	.00331	-.00041	-.00062	.00299

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33744	--	--	--	--	--	--
SDev	22.62742	--	--	--	--	--	--
%RSD	.0670561	--	--	--	--	--	--
#1	33728	--	--	--	--	--	--
#2	33760	--	--	--	--	--	--

Method: 20076010 Sample Name: lcssrm 600-91839/2-b Operator: DCL

Run Time: 10/25/12 09:17:49
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	65.728	.79748	1.6295	2.0054	1.1000	.84464	1.0581
SDev	.013	.00261	.0007	.0005	.0003	.00079	.0010
%RSD	.01920	.32773	.04496	.02653	.02796	.09312	.09830
#1	65.719	.79563	1.6290	2.0050	1.0998	.84520	1.0589
#2	65.737	.79933	1.6300	2.0058	1.1002	.84408	1.0574

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.149	1.1952	1.3613	1.2503	107.35	.06499	.78137
SDev	.031	.0003	.0004	.0003	.03	.00005	.00179
%RSD	.04328	.02258	.02950	.02553	.02903	.07371	.22923

#1	72.127	1.1950	1.3610	1.2500	107.33	.06496	.78264
#2	72.171	1.1954	1.3616	1.2505	107.37	.06503	.78011

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2357	24.074	3.3075	.67890	.73788	26.751	6.7739
SDev	.0105	.008	.0010	.00143	.00040	.019	.0002
%RSD	.84785	.03472	.02895	.21085	.05389	.07103	.00268
#1	1.2431	24.068	3.3068	.67789	.73816	26.765	6.7741
#2	1.2283	24.079	3.3082	.67991	.73760	26.738	6.7738

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41414	2.5747	3.5062	1.3333	2.0324	1.3877	1.9554
SDev	.00023	.1381	.0026	.0002	.0026	.0005	.0011
%RSD	.05552	5.3645	.07484	.01614	.12626	.03658	.05749
#1	.41430	2.6724	3.5080	1.3331	2.0306	1.3874	1.9546
#2	.41397	2.4770	3.5043	1.3334	2.0343	1.3881	1.9562

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84431	2.8952	.77660	.78376	1.2292	1.2389
SDev	.00053	.0032	.00584	.00023	.0086	.0114
%RSD	.06248	.11011	.75181	.02968	.70119	.92061
#1	.84393	2.8974	.78073	.78360	1.2353	1.2470
#2	.84468	2.8929	.77247	.78392	1.2231	1.2309

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35026	--	--	--	--	--	--
SDev	61.51829	--	--	--	--	--	--
%RSD	.1756336	--	--	--	--	--	--
#1	34983	--	--	--	--	--	--
#2	35070	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63080-a-17-d Operator: DCL
Run Time: 10/25/12 09:21:39
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	281.22	.00384	.06789	.51521	.01970	.03227	-.00428
SDev	.40	.00230	.00103	.00068	.00002	.00043	.00012
%RSD	.14291	59.802	1.5220	.13124	.10849	1.3428	2.8891
#1	281.51	.00221	.06716	.51569	.01972	.03258	-.00419
#2	280.94	.00546	.06862	.51473	.01969	.03196	-.00437

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	107.99	.26416	.08629	.18120	308.94	.28290	.15849
SDev	.13	.00021	.00018	.00064	.47	.00038	.00002
%RSD	.12299	.07914	.20938	.35501	.15316	.13277	.01184
#1	108.08	.26430	.08642	.18166	309.28	.28316	.15847
#2	107.89	.26401	.08616	.18075	308.61	.28263	.15850

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00632	100.81	1.8105	.00533	.25686	33.340	7.1588
SDev	.00139	.12	.0026	.00102	.00057	.062	.0136
%RSD	21.931	.12068	.14583	19.122	.22293	.18503	.19007
#1	-.00534	100.90	1.8124	.00605	.25645	33.383	7.1684
#2	-.00730	100.73	1.8086	.00461	.25726	33.296	7.1492

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00223	14.990	15.544	.63717	-.05224	.03644	.30004
SDev	.00066	.012	.022	.00087	.00296	.00126	.00024
%RSD	29.461	.07979	.14436	.13713	5.6578	3.4431	.08140
#1	-.00176	14.982	15.560	.63779	-.05015	.03733	.30021
#2	-.00269	14.999	15.528	.63655	-.05433	.03555	.29987

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41155	.58160	.14655	.16446	-.01546	-.00174
SDev	.00049	.00199	.00104	.00049	.00103	.00260
%RSD	.11985	.34289	.71100	.29968	6.6876	148.72
#1	.41190	.58301	.14581	.16480	-.01619	.00009
#2	.41120	.58019	.14729	.16411	-.01473	-.00358

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36126	--	--	--	--	--	--
SDev	191.6259	--	--	--	--	--	--
%RSD	.5304304	--	--	--	--	--	--

#1	35991	--	--	--	--	--	--
#2	36262	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63080-a-17-e du Operator: DCL
Run Time: 10/25/12 09:25:30
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	276.50	.00280	.06858	.70863	.02026	.02869	-.00460
SDev	.04	.00054	.00306	.00036	.00002	.00056	.00011
%RSD	.01613	19.267	4.4659	.05064	.10137	1.9476	2.3821
#1	276.53	.00319	.07074	.70838	.02027	.02829	-.00452
#2	276.47	.00242	.06641	.70889	.02024	.02908	-.00468

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	88.012	.26295	.09619	.19011	338.72	.31390	.14230
SDev	.096	.00095	.00053	.00020	.10	.00026	.00056
%RSD	.10940	.36112	.55371	.10430	.02864	.08327	.39422
#1	88.080	.26362	.09657	.19025	338.79	.31371	.14191
#2	87.944	.26228	.09582	.18997	338.65	.31408	.14270

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00457	119.97	1.4386	.00207	.31541	36.329	6.4668
SDev	.00476	.10	.0002	.00037	.00106	.002	.0056
%RSD	104.13	.08508	.01659	18.015	.33595	.00454	.08615
#1	-.00121	120.04	1.4387	.00234	.31466	36.328	6.4629
#2	-.00794	119.89	1.4384	.00181	.31616	36.330	6.4708

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00249	14.875	15.408	.63172	-.05933	.03509	.27752
SDev	.00060	.103	.006	.00066	.00679	.00274	.00011
%RSD	24.025	.68942	.03765	.10433	11.450	7.7951	.03957
#1	-.00206	14.947	15.404	.63126	-.05452	.03702	.27760
#2	-.00291	14.802	15.412	.63219	-.06413	.03316	.27744

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36420	.66462	.13176	.14758	-.00363	-.00505
SDev	.00064	.00131	.00013	.00078	.00436	.00496
%RSD	.17632	.19752	.09624	.52724	120.12	98.382
#1	.36466	.66369	.13167	.14703	-.00055	-.00154
#2	.36375	.66555	.13185	.14813	-.00671	-.00856

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36338	--	--	--	--	--	--
SDev	80.61018	--	--	--	--	--	--

%RSD	.2218344	--	--	--	--	--	--
#1	36281	--	--	--	--	--	--
#2	36395	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63080-a-17-f ms Operator: DCL
Run Time: 10/25/12 09:29:21
Comment: TRACE 61E
♀
Analysis Report 10/25/12 09:33:09 AM page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	335.05	.36253	.99440	1.8787	.46132	.54274	.41173
SDev	.87	.00081	.00139	.0050	.00146	.00220	.00157
%RSD	.26030	.22370	.14013	.26749	.31590	.40554	.38212
#1	334.43	.36310	.99341	1.8752	.46029	.54118	.41062
#2	335.67	.36196	.99538	1.8823	.46235	.54429	.41285

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	91.285	1.1602	1.1480	1.2115	472.88	.82627	1.2260
SDev	.295	.0034	.0036	.0032	1.66	.00228	.0049
%RSD	.32329	.29364	.31004	.26563	.35036	.27543	.39844
#1	91.076	1.1578	1.1455	1.2092	471.71	.82466	1.2226
#2	91.494	1.1626	1.1505	1.2137	474.06	.82788	1.2295

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.77323	133.26	7.5792	.74646	1.1971	54.304	7.0236
SDev	.00409	.42	.0224	.00504	.0026	.172	.0330
%RSD	.52848	.31520	.29545	.67456	.22031	.31640	.46931
#1	.77034	132.97	7.5634	.74290	1.1953	54.183	7.0003
#2	.77612	133.56	7.5950	.75002	1.1990	54.426	7.0469

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45857	25.208	26.022	1.0914	.74197	.85174	.66222
SDev	.00139	.060	.054	.0035	.00174	.00067	.00225
%RSD	.30411	.23936	.20890	.31741	.23459	.07833	.34011
#1	.45758	25.166	25.984	1.0889	.74074	.85126	.66063
#2	.45955	25.251	26.061	1.0938	.74320	.85221	.66381

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.5699	1.5648	1.1986	1.2397	.75657	.78156
SDev	.0045	.0077	.0054	.0046	.00280	.00473
%RSD	.28453	.49027	.45432	.37143	.37051	.60495
#1	1.5668	1.5593	1.1948	1.2365	.75459	.77822
#2	1.5731	1.5702	1.2025	1.2430	.75855	.78490

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	37318	--	--	--	--	--	--
SDev	125.1579	--	--	--	--	--	--
%RSD	.3353776	--	--	--	--	--	--
#1	37407	--	--	--	--	--	--
#2	37230	--	--	--	--	--	--

Analysis Report 10/25/12 09:33:09 AM page 15

Method: 20076010 Sample Name: 600-63080-a-17-g msd Operator: DCL
Run Time: 10/25/12 09:33:12
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	307.54	.39477	.96656	1.8003	.46518	.59089	.41791
SDev	.76	.00483	.00162	.0043	.00116	.00205	.00081
%RSD	.24568	1.2249	.16717	.23745	.24892	.34703	.19470
#1	307.00	.39135	.96770	1.7972	.46436	.58944	.41733
#2	308.07	.39819	.96542	1.8033	.46600	.59234	.41848

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.56	1.1440	1.1496	1.1775	420.23	.78946	1.2722
SDev	.27	.0027	.0025	.0028	1.12	.00269	.0032
%RSD	.26655	.23456	.21651	.24151	.26622	.34074	.24839
#1	102.37	1.1421	1.1478	1.1755	419.44	.78756	1.2700
#2	102.75	1.1459	1.1514	1.1795	421.02	.79136	1.2744

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.77286	121.57	6.7235	.77776	1.1712	45.747	6.9642
SDev	.00007	.31	.0163	.00199	.0033	.159	.0151
%RSD	.00930	.25622	.24312	.25656	.27893	.34721	.21616
#1	.77291	121.35	6.7120	.77917	1.1689	45.635	6.9535
#2	.77281	121.79	6.7351	.77635	1.1735	45.860	6.9748

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45717	25.178	25.776	1.0958	.76528	.86202	.72692
SDev	.00077	.133	.091	.0029	.00497	.00285	.00236
%RSD	.16896	.52799	.35308	.26187	.64944	.33123	.32499
#1	.45663	25.084	25.712	1.0938	.76879	.86000	.72525
#2	.45772	25.272	25.840	1.0978	.76176	.86404	.72859

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4755	1.5345	1.2484	1.2841	.75473	.78193
SDev	.0039	.0051	.0009	.0043	.00439	.00208
%RSD	.26171	.32920	.07242	.33393	.58095	.26657
#1	1.4728	1.5309	1.2478	1.2810	.75783	.78045
#2	1.4782	1.5380	1.2491	1.2871	.75163	.78340

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37213	--	--	--	--	--	--

SDev	57.98276	--	--	--	--	--	--
%RSD	.1558132	--	--	--	--	--	--
#1	37254	--	--	--	--	--	--
#2	37172	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63080-a-20-a Operator: DCL
Run Time: 10/25/12 09:37:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	219.91	-.00005	.04788	1.1953	.02106	.01772	-.00464
SDev	1.36	.00454	.00172	.0100	.00006	.00112	.00001
%RSD	.61921	9299.1	3.5967	.83326	.28492	6.3144	.18133
#1	220.87	-.00326	.04667	1.2024	.02102	.01693	-.00463
#2	218.94	.00316	.04910	1.1883	.02110	.01851	-.00464

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	70.407	.20570	.06912	.14475	291.25	.10932	.20681
SDev	.010	.00093	.00015	.00045	.10	.00086	.00147
%RSD	.01485	.45395	.22296	.30862	.03336	.79152	.70885
#1	70.400	.20504	.06923	.14443	291.32	.10993	.20784
#2	70.415	.20636	.06902	.14506	291.19	.10870	.20577

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	39.277	.53299	.00646	.15520	9.9069	6.3388
SDev	.00102	.016	.00119	.00162	.00036	.0715	.0304
%RSD	484.85	.03986	.22338	25.032	.23390	.72177	.47951
#1	.00051	39.266	.53383	.00761	.15545	9.9575	6.3603
#2	-.00093	39.288	.53215	.00532	.15494	9.8564	6.3173

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00247	13.253	13.186	.55494	-.04711	.03129	.10686
SDev	.00006	.072	.100	.00381	.00088	.00107	.00003
%RSD	2.6264	.54336	.75721	.68740	1.8759	3.4090	.03218
#1	-.00252	13.304	13.257	.55764	-.04773	.03053	.10683
#2	-.00243	13.202	13.116	.55224	-.04648	.03204	.10688

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59974	.30138	.20216	.20913	-.00363	.00150
SDev	.00078	.00051	.01082	.00321	.00549	.00121
%RSD	.13038	.17047	5.3535	1.5361	151.12	80.682
#1	.60029	.30174	.20981	.20686	.00025	.00064
#2	.59919	.30102	.19450	.21140	-.00751	.00235

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39370	--	--	--	--	--	--
SDev	364.1600	--	--	--	--	--	--
%RSD	.9249800	--	--	--	--	--	--
#1	39112	--	--	--	--	--	--
#2	39627	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63080-a-26-a Operator: DCL
Run Time: 10/25/12 09:40:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	218.71	.00215	.02943	2.4199	.01999	.01691	-.00274
SDev	.31	.00079	.00073	.0034	.00001	.00047	.00001
%RSD	.13981	36.753	2.4900	.14035	.02398	2.8066	.40238
#1	218.50	.00271	.02995	2.4175	.01999	.01658	-.00273
#2	218.93	.00159	.02891	2.4223	.01999	.01725	-.00275

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	68.087	.19498	.08666	.10951	185.19	.15339	.30685
SDev	.149	.00012	.00040	.00019	.45	.00024	.00084
%RSD	.21833	.06171	.45725	.17442	.24483	.15572	.27493
#1	67.982	.19490	.08694	.10938	184.87	.15322	.30626
#2	68.192	.19507	.08638	.10965	185.51	.15356	.30745

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	47.346	1.6152	.00154	.14149	13.478	6.1930
SDev	.00096	.084	.0027	.00028	.00028	.009	.0113
%RSD	713.53	.17768	.16491	17.861	.19485	.06989	.18298
#1	-.00081	47.287	1.6133	.00174	.14169	13.471	6.1850
#2	.00054	47.406	1.6171	.00135	.14130	13.484	6.2010

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00578	19.183	19.064	.64390	-.03862	.03015	.11005
SDev	.00002	.061	.016	.00069	.00299	.00016	.00022
%RSD	.35972	.32011	.08413	.10731	7.7406	.51845	.20375
#1	-.00580	19.226	19.052	.64342	-.04074	.03004	.10989
#2	-.00577	19.139	19.075	.64439	-.03651	.03026	.11021

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38042	.36170	.29419	.31318	-.00419	.00189
SDev	.00059	.00056	.00047	.00103	.00647	.00180
%RSD	.15443	.15588	.16096	.32846	154.56	95.236

#1	.38000	.36130	.29386	.31246	-.00877	.00317
#2	.38084	.36210	.29452	.31391	.00039	.00062

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38694	--	--	--	--	--	--
SDev	113.8442	--	--	--	--	--	--
%RSD	.2942205	--	--	--	--	--	--
#1	38774	--	--	--	--	--	--
#2	38613	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63281-a-1-a Operator: DCL
Run Time: 10/25/12 09:44:46
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.811	.00440	.02399	.58333	.00446	.07648	-.00040
SDev	.274	.00077	.00384	.00269	.00002	.00086	.00012
%RSD	.55025	17.417	15.995	.46043	.48007	1.1189	29.435
#1	49.617	.00494	.02670	.58143	.00448	.07588	-.00032
#2	50.004	.00386	.02128	.58523	.00445	.07709	-.00049

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.871	.08306	.03734	.11031	44.326	.01508	.09696
SDev	.072	.00028	.00011	.00067	.189	.00010	.00044
%RSD	.40324	.33534	.29064	.60906	.42746	.66528	.45939
#1	17.820	.08287	.03726	.10984	44.192	.01501	.09665
#2	17.922	.08326	.03741	.11079	44.460	.01515	.09728

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00434	3.8268	.49535	.03060	.05892	3.2850	6.7197
SDev	.00111	.0146	.00185	.00127	.00060	.0240	.0365
%RSD	25.651	.38151	.37349	4.1536	1.0209	.72938	.54364
#1	.00513	3.8165	.49405	.03150	.05849	3.2681	6.6938
#2	.00356	3.8371	.49666	.02970	.05934	3.3020	6.7455

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00100	.50976	.49884	.07620	-.01064	.03155	.20028
SDev	.00019	.01914	.00427	.00047	.00061	.00067	.00082
%RSD	19.212	3.7556	.85594	.61329	5.6937	2.1182	.40947
#1	-.00086	.52330	.49583	.07587	-.01107	.03202	.19970
#2	-.00113	.49622	.50186	.07653	-.01021	.03108	.20086

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	♀

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18949	.21873	.09320	.09885	-.00261	.00782
SDev	.00070	.00085	.00090	.00022	.00219	.00276

%RSD	.37090	.38940	.96489	.22108	83.818	35.347
#1	.18900	.21813	.09257	.09869	-.00415	.00978
#2	.18999	.21933	.09384	.09900	-.00106	.00587

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36166	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.2287517	--	--	--	--	--	--
#1	36225	--	--	--	--	--	--
#2	36108	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63281-a-2-a Operator: DCL
Run Time: 10/25/12 09:48:37
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.363	.01094	.18763	1.8770	.00145	.27985	-.04916
SDev	.049	.00015	.00245	.0059	.00002	.00149	.00010
%RSD	.24014	1.3656	1.3056	.31427	1.6210	.53098	.21062
#1	20.328	.01105	.18589	1.8729	.00147	.27880	-.04908
#2	20.398	.01083	.18936	1.8812	.00144	.28090	-.04923

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	295.06	21.325	.32988	5.0150	2038.6	.01515	.34348
SDev	.40	.065	.00058	.0132	2.0	.00007	.00080
%RSD	.13625	.30624	.17717	.26286	.09659	.44077	.23327
#1	294.77	21.279	.32947	5.0057	2037.2	.01510	.34292
#2	295.34	21.371	.33029	5.0243	2040.0	.01519	.34405

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01016	11.624	9.5593	6.8914	28.159	1.6506	9.3219
SDev	.00201	.012	.0183	.0278	.153	.0056	.0733
%RSD	19.797	.09956	.19102	.40324	.54366	.34148	.78644
#1	.01158	11.616	9.5464	6.8718	28.267	1.6466	9.2701
#2	.00873	11.632	9.5722	6.9111	28.051	1.6545	9.3738

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00726	.58176	1.0272	.52056	-.32837	.33306	.56406
SDev	.00003	.03566	.0027	.00169	.00388	.00094	.00115
%RSD	.46405	6.1303	.26075	.32533	1.1826	.28162	.20411

♀
Analysis Report 10/25/12 09:52:25 AM page 20

#1	.00723	.55655	1.0253	.51937	-.33112	.33372	.56325
#2	.00728	.60698	1.0291	.52176	-.32562	.33239	.56488

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.3538	1.9493	.32635	.35205	-.06099	.04573

SDev	.0011	.0067	.00207	.00017	.00371	.00487
%RSD	.08494	.34493	.63294	.04803	6.0774	10.648
#1	1.3530	1.9446	.32489	.35193	-.06361	.04917
#2	1.3547	1.9541	.32781	.35217	-.05837	.04228

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32818	--	--	--	--	--	--
SDev	159.0990	--	--	--	--	--	--
%RSD	.4847994	--	--	--	--	--	--
#1	32930	--	--	--	--	--	--
#2	32705	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 09:52:28
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4845	.48933	.49057	.48966	.48775	.49543	.48325
SDev	.0035	.00138	.00112	.00054	.00057	.00036	.00149
%RSD	.14279	.28312	.22784	.10947	.11778	.07301	.30836
#1	2.4870	.49031	.49136	.49004	.48816	.49569	.48431
#2	2.4820	.48835	.48978	.48928	.48734	.49518	.48220

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.048	.48917	.48426	.49878	2.5915	.45589	.47806
SDev	.002	.00025	.00122	.00047	.1260	.00051	.00379
%RSD	.01368	.05098	.25237	.09497	4.8606	.11140	.79173
#1	12.047	.48900	.48512	.49911	2.5024	.45625	.48073
#2	12.049	.48935	.48339	.49844	2.6806	.45554	.47538

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48895	4.7787	.48497	.50886	.47840	11.928	.97187
SDev	.00574	.0110	.00006	.00330	.00690	.030	.01455
%RSD	1.1735	.23065	.01224	.64900	1.4427	.24997	1.4973
#1	.49301	4.7865	.48493	.51120	.47352	11.949	.98216
#2	.48489	4.7709	.48501	.50653	.48328	11.907	.96158

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 10/25/12 09:56:16 AM page 21

Avge	.24631	12.424	12.001	.24286	.50079	.48934	.49035
SDev	.00007	.033	.008	.00017	.00516	.00095	.00063
%RSD	.02734	.26400	.06366	.07098	1.0302	.19459	.12839
#1	.24626	12.401	12.006	.24299	.49714	.49001	.49079
#2	.24636	12.447	11.995	.24274	.50444	.48866	.48990

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.49242	.49836	.47050	.48183	.47761	.49468
SDev	.00105	.00053	.00548	.00294	.00949	.00386
%RSD	.21233	.10547	1.1644	.60977	1.9875	.78049
#1	.49316	.49873	.47438	.48391	.48432	.49741
#2	.49168	.49798	.46663	.47975	.47090	.49195

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33397	--	--	--	--	--	--
SDev	86.26703	--	--	--	--	--	--
%RSD	.2583077	--	--	--	--	--	--
#1	33336	--	--	--	--	--	--
#2	33458	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 09:56:19
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02077	.00069	.00273	.00013	-.00019	.00167	-.00005
SDev	.00075	.00118	.00183	.00002	.00003	.00015	.00010
%RSD	3.5991	171.05	67.166	11.922	14.612	8.8980	179.88
#1	.02130	-.00014	.00402	.00014	-.00020	.00156	.00001
#2	.02025	.00152	.00143	.00012	-.00017	.00177	-.00012

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00767	.00051	-.00020	-.00022	.02653	-.00031	.00132
SDev	.00273	.00017	.00011	.00005	.01731	.00003	.00067
%RSD	35.591	33.412	53.785	22.051	65.219	9.9688	50.577
#1	.00574	.00039	-.00028	-.00025	.01430	-.00028	.00085
#2	.00960	.00064	-.00013	-.00018	.03877	-.00033	.00179

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00265	-.02649	.00019	.00439	.00059	-.17150	.01102
SDev	.00229	.00099	.00007	.00180	.00012	.01957	.00341
%RSD	86.127	3.7445	37.223	40.975	20.852	11.414	30.916
#1	.00427	-.02579	.00014	.00566	.00068	-.15766	.01343

#2	.00104	-.02719	.00025	.00312	.00051	-.18534	.00861

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	.06439	-.00858	.00008	.00208	-.00101	.00031
SDev	.00043	.12826	.00223	.00002	.00058	.00191	.00004
%RSD	167.32	199.20	25.952	21.773	27.821	188.05	12.569
#1	-.00005	-.02630	-.00700	.00007	.00249	.00033	.00034
#2	.00056	.15508	-.01015	.00009	.00167	-.00236	.00029

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00039	-.00030	.00092	.00152	.00336	.00230
SDev	.00032	.00001	.00090	.00145	.00281	.00202
%RSD	82.849	2.2308	97.446	95.360	83.496	88.052
#1	.00062	-.00031	.00155	.00049	.00535	.00373
#2	.00016	-.00030	.00029	.00254	.00138	.00087

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33630	--	--	--	--	--	--
SDev	110.3087	--	--	--	--	--	--
%RSD	.3280067	--	--	--	--	--	--
#1	33552	--	--	--	--	--	--
#2	33708	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63281-a-3-a Operator: DCL
Run Time: 10/25/12 10:00:09
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.325	.00415	.03790	.69846	.00505	.01552	-.00125
SDev	.009	.00097	.00067	.00194	.00000	.00007	.00008
%RSD	.01308	23.485	1.7588	.27747	.00502	.44660	6.7857
#1	72.318	.00484	.03743	.69709	.00505	.01557	-.00119
#2	72.331	.00346	.03837	.69983	.00505	.01547	-.00131

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.762	.07955	.03936	.04720	85.961	.01729	.11620
SDev	.019	.00035	.00023	.00021	.109	.00009	.00053
%RSD	.07309	.44440	.58797	.44484	.12717	.50083	.46083
#1	25.749	.07930	.03953	.04705	85.884	.01735	.11582
#2	25.775	.07980	.03920	.04734	86.039	.01723	.11658

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00003	7.9040	.48298	.00680	.04633	2.8523	7.3699

SDev	.00122	.0049	.00045	.00077	.00006	.0294	.0094
%RSD	3808.7	.06178	.09227	11.269	.13395	1.0290	.12711
#1	-.00090	7.9006	.48266	.00734	.04638	2.8731	7.3633
#2	.00083	7.9075	.48329	.00625	.04629	2.8316	7.3765

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00199	.75886	.69839	.11351	-.01700	.02702	.17019
SDev	.00025	.08285	.00278	.00033	.00179	.00103	.00043
%RSD	12.755	10.917	.39780	.28861	10.548	3.8023	.25310
#1	-.00181	.81744	.70036	.11328	-.01573	.02775	.16988
#2	-.00217	.70028	.69643	.11374	-.01827	.02629	.17049

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21796	.13831	.10899	.11980	-.00243	.00117
SDev	.00016	.00059	.00279	.00220	.00174	.00271
%RSD	.07308	.42660	2.5619	1.8358	71.877	232.41
#1	.21785	.13790	.11097	.11825	-.00119	-.00075
#2	.21808	.13873	.10702	.12136	-.00366	.00308

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36798	--	--	--	--	--	--
SDev	197.2828	--	--	--	--	--	--
%RSD	.5361164	--	--	--	--	--	--
#1	36659	--	--	--	--	--	--
#2	36938	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63252-a-1-a Operator: DCL
Run Time: 10/25/12 10:04:00
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	184.63	.00829	.15352	1.6744	.01375	.08553	.00418
SDev	.34	.00239	.00016	.0010	.00008	.00099	.00028
%RSD	.18667	28.872	.10312	.06207	.59650	1.1546	6.6738
#1	184.87	.00998	.15341	1.6752	.01380	.08623	.00437
#2	184.39	.00659	.15364	1.6737	.01369	.08483	.00398

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	976.93	.25638	.11809	.28099	213.52	.11750	.50846
SDev	7.48	.00205	.00221	.00031	1.51	.00019	.00064
%RSD	.76593	.80131	1.8698	.11170	.70921	.16599	.12641
#1	982.22	.25783	.11965	.28077	214.59	.11737	.50801
#2	971.64	.25493	.11653	.28121	212.45	.11764	.50892

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00518	33.478	7.4732	.01010	.35428	29.302	8.9157
SDev	.00257	.242	.0423	.00127	.00345	.064	.0405
%RSD	49.588	.72139	.56624	12.529	.97382	.21943	.45399
#1	-.00336	33.648	7.5031	.01099	.35672	29.256	8.9444
#2	-.00700	33.307	7.4433	.00920	.35184	29.347	8.8871

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00285	30.164	32.109	4.7418	-.04983	.03015	.28879
SDev	.00161	.335	.077	.0114	.00341	.00410	.00115
%RSD	56.492	1.1109	.24125	.24011	6.8426	13.584	.39686
#1	-.00171	30.401	32.054	4.7498	-.04742	.03305	.28960

#2	-.00398	29.927	32.164	4.7337	-.05224	.02726	.28798

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.78133	.85164	.48079	.52230	-.01253	-.00151
SDev	.00417	.00490	.01398	.00795	.01431	.00330
%RSD	.53348	.57504	2.9069	1.5225	114.26	219.20
#1	.78427	.85510	.49067	.51668	-.00241	-.00384
#2	.77838	.84817	.47090	.52792	-.02265	.00083

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37788	--	--	--	--	--	--
SDev	68.58935	--	--	--	--	--	--
%RSD	.1815133	--	--	--	--	--	--
#1	37836	--	--	--	--	--	--
#2	37739	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63252-a-2-a Operator: DCL
Run Time: 10/25/12 10:07:50
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	181.98	.00452	.16402	1.4843	.01338	.07702	.00421
SDev	2.64	.00286	.00148	.0206	.00013	.00077	.00011
%RSD	1.4521	63.205	.90125	1.3857	.98481	.99594	2.5238
#1	183.85	.00654	.16507	1.4989	.01347	.07756	.00413
#2	180.11	.00250	.16298	1.4698	.01329	.07648	.00429

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	1014.1	.25221	.11663	.27545	201.44	.11284	.51309
SDev	11.2	.00328	.00147	.00407	2.61	.00161	.00508
%RSD	1.1071	1.3018	1.2615	1.4761	1.2944	1.4305	.98979
#1	1022.1	.25453	.11767	.27832	203.28	.11398	.51669
#2	1006.2	.24989	.11559	.27257	199.59	.11170	.50950

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00197	33.994	8.9312	.01023	.35045	27.954	9.9348
SDev	.00327	.442	.1132	.00003	.00484	.384	.1467
%RSD	165.37	1.2991	1.2675	.27769	1.3816	1.3745	1.4769
#1	-.00428	34.307	9.0112	.01021	.35388	28.226	10.039
#2	.00033	33.682	8.8511	.01025	.34703	27.682	9.8310

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00184	24.555	26.302	4.8886	-.04901	.03094	.29621
SDev	.00026	.377	.356	.0689	.00226	.00266	.00420
%RSD	14.049	1.5347	1.3545	1.4086	4.6117	8.6129	1.4194

#1	-.00166	24.821	26.554	4.9373	-.04741	.03283	.29919
#2	-.00203	24.288	26.050	4.8399	-.05060	.02906	.29324

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.76704	.83054	.49646	.52141	.00003	-.00297
SDev	.00968	.00970	.00294	.00615	.00258	.00361
%RSD	1.2624	1.1675	.59124	1.1795	10061.	121.31
#1	.77389	.83739	.49853	.52576	-.00180	-.00553
#2	.76020	.82368	.49438	.51706	.00185	-.00042

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37396	--	--	--	--	--	--
SDev	389.6158	--	--	--	--	--	--
%RSD	1.041851	--	--	--	--	--	--
#1	37121	--	--	--	--	--	--
#2	37672	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63252-a-3-a Operator: DCL
Run Time: 10/25/12 10:11:41
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	200.68	.00480	.16884	1.7955	.01497	.05819	.00453
SDev	.06	.00123	.00009	.0012	.00001	.00052	.00005
%RSD	.02808	25.659	.05375	.06712	.07375	.89420	1.1347

♀

#1	200.64	.00567	.16890	1.7947	.01498	.05782	.00457
#2	200.72	.00393	.16877	1.7964	.01496	.05855	.00449

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	929.56	.28489	.14329	.29966	210.55	.11419	.21181
SDev	.26	.00068	.00022	.00005	.02	.00007	.00144
%RSD	.02813	.23765	.15640	.01493	.00960	.06490	.67959
#1	929.74	.28441	.14344	.29963	210.54	.11413	.21079
#2	929.37	.28536	.14313	.29969	210.57	.11424	.21283

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00123	33.550	8.3453	.00902	.42500	22.700	9.2041
SDev	.00106	.015	.0001	.00104	.00056	.033	.0003
%RSD	86.462	.04579	.00118	11.486	.13159	.14352	.00345
#1	-.00048	33.561	8.3452	.00975	.42540	22.677	9.2043
#2	-.00198	33.539	8.3453	.00829	.42461	22.723	9.2039

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00209	48.962	49.557	4.0287	-.04804	.02998	.27475

SDev	.00045	.018	.035	.0035	.00242	.00079	.00015
%RSD	21.592	.03749	.07106	.08712	5.0368	2.6480	.05592
#1	-.00177	48.975	49.532	4.0262	-.04633	.03054	.27464
#2	-.00241	48.949	49.582	4.0312	-.04975	.02941	.27486

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.85944	.82401	.19764	.21889	.00125	-.00247
SDev	.00002	.00044	.00157	.00295	.00219	.00050
%RSD	.00190	.05404	.79477	1.3452	175.27	20.256
#1	.85942	.82369	.19875	.21681	.00280	-.00211
#2	.85945	.82432	.19653	.22097	-.00030	-.00282

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38406	--	--	--	--	--	--
SDev	22.62742	--	--	--	--	--	--
%RSD	.0589164	--	--	--	--	--	--
#1	38390	--	--	--	--	--	--
#2	38422	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63252-a-4-a Operator: DCL
Run Time: 10/25/12 10:15:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	174.95	.00215	.12050	1.0670	.01367	.09507	.00160
SDev	.75	.00219	.00179	.0022	.00016	.00013	.00016
%RSD	.42602	101.86	1.4885	.20573	1.1760	.13163	10.294
#1	175.48	.00060	.12177	1.0685	.01379	.09498	.00171
#2	174.43	.00370	.11923	1.0654	.01356	.09516	.00148

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	531.34	.22338	.09227	.23929	251.71	.11451	.26205
SDev	4.81	.00236	.00091	.00127	2.11	.00018	.00131
%RSD	.90525	1.0555	.98740	.53054	.83845	.15988	.49841
#1	534.74	.22505	.09292	.24019	253.20	.11464	.26297
#2	527.94	.22171	.09163	.23839	250.21	.11438	.26113

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00157	32.141	4.5917	.00835	.24434	32.358	7.9198
SDev	.00159	.302	.0357	.00075	.00214	.021	.0448
%RSD	101.41	.93873	.77856	8.9444	.87440	.06460	.56539
#1	-.00044	32.354	4.6170	.00888	.24585	32.373	7.9514
#2	-.00270	31.927	4.5664	.00783	.24283	32.344	7.8881

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00360	22.147	23.039	2.8722	-.04949	.02974	.37512
SDev	.00039	.019	.011	.0065	.00313	.00081	.00218
%RSD	10.772	.08572	.04774	.22797	6.3224	2.7211	.58194
#1	-.00333	22.160	23.046	2.8769	-.05171	.03032	.37666
#2	-.00388	22.133	23.031	2.8676	-.04728	.02917	.37357

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.62288	.76297	.24476	.27069	-.00668	.00098
SDev	.00396	.00458	.00464	.00036	.00445	.00016
%RSD	.63648	.60047	1.8948	.13291	66.605	16.779
#1	.62568	.76621	.24804	.27044	-.00353	.00110
#2	.62007	.75973	.24149	.27095	-.00983	.00087

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38697	--	--	--	--	--	--
SDev	22.62742	--	--	--	--	--	--
%RSD	.0584733	--	--	--	--	--	--
#1	38681	--	--	--	--	--	--
#2	38713	--	--	--	--	--	--

♀

10/25/12 10:23:10 AM page 28

Method: 20076010 Sample Name: 600-63252-a-5-a Operator: DCL
Run Time: 10/25/12 10:19:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.179	.76404	1.0929	.66901	.00206	.18587	2.9080
SDev	.044	.00017	.0027	.00029	.00004	.00044	.0000
%RSD	.12435	.02258	.24409	.04276	1.9373	.23711	.00136
#1	35.210	.76416	1.0948	.66921	.00209	.18556	2.9080
#2	35.148	.76392	1.0911	.66881	.00203	.18618	2.9080

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2391.3	.11024	.04721	1.6074	86.005	.04282	78.251
SDev	11.0	.00019	.00005	.0013	.070	.00007	.110
%RSD	.46150	.16865	.10534	.07803	.08100	.16029	.14016
#1	2383.5	.11037	.04724	1.6083	85.956	.04277	78.173
#2	2399.1	.11011	.04717	1.6065	86.054	.04287	78.328

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15240	111.17	3.5292	.01953	.31893	12.471	7.0563
SDev	.00214	.06	.0011	.00062	.00058	.028	.0076
%RSD	1.4054	.05509	.03050	3.1677	.18194	.22222	.10757
#1	.15088	111.13	3.5284	.01996	.31934	12.452	7.0616
#2	.15391	111.22	3.5299	.01909	.31852	12.491	7.0509

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00111	66.994	71.586	16.679	-.00663	1.1523	.21057
SDev	.00008	.169	.022	.023	.00060	.0004	.00079
%RSD	6.8843	.25198	.03036	.13880	9.0487	.03785	.37681
#1	.00106	67.114	71.602	16.695	-.00621	1.1520	.21113
#2	.00117	66.875	71.571	16.663	-.00706	1.1526	.21001

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17166	.74823	76.288	79.232	.15828	.14946
SDev	.00009	.00039	.152	.088	.00273	.00458
%RSD	.04965	.05161	.19962	.11155	1.7256	3.0634
#1	.17160	.74850	76.180	79.169	.16021	.14622
#2	.17172	.74795	76.396	79.294	.15635	.15269

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31037	--	--	--	--	--	--
SDev	159.8061	--	--	--	--	--	--
%RSD	.5148891	--	--	--	--	--	--

#1	31150	--	--	--	--	--	--
#2	30924	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63252-a-6-a Operator: DCL
Run Time: 10/25/12 10:23:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	166.16	.54068	.44611	1.6511	.01155	.21371	.07503
SDev	.77	.00034	.00019	.0077	.00001	.00127	.00030
%RSD	.46227	.06369	.04352	.46863	.11508	.59248	.39979
#1	166.71	.54093	.44625	1.6566	.01156	.21461	.07524
#2	165.62	.54044	.44597	1.6457	.01154	.21282	.07482

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1100.9	.24305	.10229	.35927	201.52	.10453	k123.56
SDev	4.7	.00097	.00042	.00174	.81	.00041	.79
%RSD	.43089	.40118	.40738	.48503	.40357	.39423	.64123
#1	1104.3	.24374	.10259	.36051	202.10	.10482	k124.12
#2	1097.6	.24236	.10200	.35804	200.95	.10424	k123.00

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00375	52.479	6.2185	.01929	.34952	31.567	10.587
SDev	.00244	.209	.0253	.00032	.00183	.106	.046
%RSD	65.202	.39877	.40710	1.6389	.52206	.33576	.42990
#1	-.00548	52.627	6.2364	.01906	.35081	31.642	10.619

#2	-.00202	52.331	6.2006	.01951	.34823	31.492	10.555

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00286	171.80	145.74	4.6914	-.04329	.19731	.32916
SDev	.00021	.64	.63	.0150	.00087	.00264	.00162
%RSD	7.2661	.37310	.43131	.31986	2.0070	1.3387	.49136
#1	.00271	172.26	146.18	4.7020	-.04390	.19917	.33030
#2	.00301	171.35	145.30	4.6808	-.04267	.19544	.32801

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.69287	1.6530	285.45	S42.614	-.00293	-.00416
SDev	.00338	.0082	1.80	.291	.00337	.00198
%RSD	.48831	.49439	.62909	.68192	114.78	47.710
#1	.69526	1.6587	286.72	S42.819	-.00531	-.00556
#2	.69048	1.6472	284.18	S42.408	-.00055	-.00275

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

♀

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37154	--	--	--	--	--	--
SDev	249.6087	--	--	--	--	--	--
%RSD	.6718309	--	--	--	--	--	--
#1	36977	--	--	--	--	--	--
#2	37330	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63292-a-1-a Operator: DCL
Run Time: 10/25/12 10:27:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09688	.00235	.00272	.00094	-.00065	.00231	.00001
SDev	.01037	.00168	.00070	.00006	.00021	.00061	.00007
%RSD	10.700	71.319	25.853	6.0887	31.815	26.278	485.86
#1	.10420	.00354	.00222	.00098	-.00080	.00188	.00006
#2	.08955	.00117	.00321	.00090	-.00051	.00274	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54146	.00148	-.00066	.00114	.05417	-.00007	.01134
SDev	.03882	.00005	.00014	.00082	.00910	.00029	.00573
%RSD	7.1690	3.4219	21.081	71.864	16.809	401.60	50.488
#1	.56891	.00152	-.00076	.00171	.06060	.00013	.01540
#2	.51401	.00144	-.00056	.00056	.04773	-.00028	.00729

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00423	-.03445	.00074	4.5524	-.00031	7.9618	.10404
SDev	.00196	.02727	.00005	.1948	.00051	.5023	.01525
%RSD	46.201	79.160	7.1159	4.2787	162.31	6.3084	14.660

#1	.00562	-.01517	.00078	4.6901	-.00067	8.3169	.11483
#2	.00285	-.05373	.00070	4.4146	.00005	7.6066	.09326

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	363.66	249.56	.00063	-.00426	.03343	.00026
SDev	.00026	15.40	10.55	.00004	.00062	.00017	.00004
%RSD	67.006	4.2342	4.2260	6.4776	14.506	.50607	15.721

#1	-.00021	374.54	257.02	.00066	-.00470	.03331	.00023
#2	-.00058	352.77	242.11	.00060	-.00382	.03355	.00029

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02136	.05076	.00723	.01340	.00301	.00485
SDev	.00056	.00212	.00222	.00748	.00756	.00085
%RSD	2.6236	4.1733	30.650	55.838	251.63	17.479

#1	.02176	.05226	.00880	.01869	.00836	.00425	♀

#2	.02097	.04927	.00566	.00811	-.00234	.00545	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33112	--	--	--	--	--	--
SDev	1378.151	--	--	--	--	--	--
%RSD	4.162152	--	--	--	--	--	--

#1	32137	--	--	--	--	--	--
#2	34086	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-1-a Operator: DCL
Run Time: 10/25/12 10:30:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.159	.00181	.02609	.41986	.00401	.02013	-.00002
SDev	.003	.00006	.00131	.00098	.00001	.00060	.00008
%RSD	.01186	3.5274	5.0209	.23349	.11892	2.9700	339.84

#1	29.157	.00177	.02702	.41917	.00401	.01971	-.00008
#2	29.162	.00186	.02516	.42056	.00401	.02056	.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.19	.05326	.02368	.05754	53.729	.02377	.08039
SDev	.44	.00009	.00016	.00031	.154	.00001	.00032
%RSD	.23773	.17311	.69621	.54540	.28673	.02520	.40033

#1	185.87	.05332	.02380	.05776	53.620	.02376	.08062
#2	186.50	.05319	.02357	.05732	53.838	.02377	.08016

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00161	14.096	.76650	.00955	.04813	4.5987	6.0569
SDev	.00055	.032	.00135	.00353	.00009	.0075	.0117

%RSD	34.207	.22713	.17642	37.034	.19061	.16338	.19333
#1	-.00200	14.074	.76555	.01205	.04819	4.6041	6.0486
#2	-.00122	14.119	.76746	.00705	.04806	4.5934	6.0652

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00105	.74144	.87428	.36058	-.01248	.02685	.21917
SDev	.00043	.00421	.00525	.00099	.00030	.00231	.00025
%RSD	40.321	.56809	.60100	.27441	2.3819	8.5893	.11342
#1	-.00136	.74442	.87799	.35988	-.01227	.02522	.21899
#2	-.00075	.73846	.87056	.36128	-.01269	.02848	.21935

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08796	.19848	.07778	.08169	-.00509	.00013

SDev	.00016	.00043	.00097	.00000	.00108	.00028
%RSD	.18330	.21730	1.2501	.00423	21.257	215.36
#1	.08807	.19818	.07847	.08169	-.00585	-.00007
#2	.08784	.19879	.07709	.08169	-.00432	.00033

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35518	--	--	--	--	--	--
SDev	18.38478	--	--	--	--	--	--
%RSD	.0517619	--	--	--	--	--	--
#1	35531	--	--	--	--	--	--
#2	35505	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-2-a Operator: DCL
Run Time: 10/25/12 10:34:47
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.106	.00241	.02237	.57821	.00920	.01210	-.00067
SDev	.029	.00174	.00070	.00040	.00001	.00064	.00004
%RSD	.05595	72.384	3.1219	.06833	.09014	5.2768	6.4884
#1	52.085	.00118	.02187	.57793	.00919	.01255	-.00063
#2	52.127	.00364	.02286	.57849	.00920	.01164	-.00070

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	45.237	.03907	.03191	.03521	45.571	.01716	.07927
SDev	.112	.00036	.00015	.00028	.112	.00006	.00076
%RSD	.24730	.91687	.47215	.78991	.24569	.32453	.96081
#1	45.157	.03882	.03181	.03501	45.492	.01712	.07873
#2	45.316	.03932	.03202	.03541	45.650	.01720	.07981

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00086	13.802	.22972	.00293	.08154	4.6918	7.4120

SDev	.00198	.037	.00042	.00073	.00032	.0271	.0068
%RSD	230.94	.26825	.18332	24.921	.39008	.57846	.09128
#1	-.00226	13.775	.22942	.00345	.08131	4.6726	7.4072
#2	.00054	13.828	.23002	.00241	.08176	4.7110	7.4167

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00235	.86245	.90255	.20375	-.01223	.02647	.13941
SDev	.00030	.02795	.00002	.00027	.00143	.00097	.00037
%RSD	12.561	3.2411	.00212	.13215	11.654	3.6805	.26378
#1	-.00214	.88222	.90254	.20356	-.01123	.02716	.13915
#2	-.00256	.84268	.90256	.20394	-.01324	.02578	.13967

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08380	.10903	.07403	.08189	-.00469	.00106
SDev	.00027	.00029	.00021	.00125	.00175	.00209
%RSD	.31880	.26333	.27856	1.5210	37.413	197.79
#1	.08361	.10882	.07417	.08101	-.00593	-.00042
#2	.08399	.10923	.07388	.08277	-.00345	.00254

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37068	--	--	--	--	--	--
SDev	121.6224	--	--	--	--	--	--
%RSD	.3281061	--	--	--	--	--	--
#1	37154	--	--	--	--	--	--
#2	36982	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 10:38:38
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4799	.49307	.49507	.49028	.48662	.49952	.48816
SDev	.0080	.00247	.00128	.00222	.00208	.00139	.00202
%RSD	.32154	.49991	.25916	.45192	.42781	.27742	.41360
#1	2.4855	.49481	.49597	.49185	.48810	.50050	.48959
#2	2.4743	.49132	.49416	.48872	.48515	.49854	.48673

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.084	.48501	.48424	.49686	2.4651	.45610	.48001
SDev	.042	.00246	.00212	.00200	.0083	.00180	.00339
%RSD	.34948	.50793	.43788	.40223	.33695	.39383	.70691
#1	12.114	.48675	.48574	.49828	2.4710	.45737	.48241
#2	12.054	.48327	.48274	.49545	2.4593	.45483	.47762

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.48957	4.7878	.48469	.50006	.49314	11.874	.94937
SDev	.00281	.0253	.00241	.00041	.00304	.027	.00577
%RSD	.57316	.52775	.49629	.08115	.61592	.23068	.60812
#1	.49156	4.8056	.48639	.49977	.49529	11.893	.95345
#2	.48759	4.7699	.48299	.50035	.49099	11.854	.94528

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24721	12.378	12.013	.24324	.49932	.48927	.49190
SDev	.00058	.084	.045	.00095	.00109	.00010	.00239

%RSD	.23293	.67840	.37270	.39129	.21822	.02042	.48590
#1	.24762	12.437	12.045	.24392	.50009	.48920	.49359
#2	.24681	12.318	11.981	.24257	.49855	.48935	.49021

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49279	.50076	.45973	.49016	.47005	.49939
SDev	.00237	.00179	.00312	.00353	.00638	.00102
%RSD	.48051	.35684	.67761	.72064	1.3578	.20388
#1	.49447	.50203	.46193	.49266	.47456	.50011
#2	.49112	.49950	.45752	.48766	.46554	.49867

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33956	--	--	--	--	--	--
SDev	40.30509	--	--	--	--	--	--
%RSD	.1186997	--	--	--	--	--	--
#1	33984	--	--	--	--	--	--
#2	33927	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 10:42:29
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03301	.00248	.00297	.00013	-.00040	.00099	-.00004
SDev	.00321	.00034	.00033	.00008	.00001	.00046	.00001
%RSD	9.7121	13.541	11.183	62.894	1.8738	46.880	19.136
#1	.03074	.00224	.00321	.00007	-.00040	.00066	-.00005
#2	.03528	.00272	.00274	.00019	-.00041	.00132	-.00004

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	.00027	-.00016	-.00061	.00750	-.00050	.00128
SDev	.00303	.00020	.00021	.00033	.00185	.00001	.00077
%RSD	1162.6	76.496	133.27	54.233	24.704	1.4727	60.105
#1	-.00188	.00012	-.00031	-.00084	.00882	-.00051	.00074
#2	.00241	.00041	-.00001	-.00037	.00619	-.00050	.00183

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00205	-.04795	.00012	.00215	-.00042	-.28080	.00290
SDev	.00005	.00080	.00004	.00099	.00003	.00438	.00021
%RSD	2.3343	1.6779	31.052	45.932	7.1047	1.5607	7.1327
#1	.00202	-.04738	.00009	.00284	-.00039	-.27770	.00275
#2	.00208	-.04852	.00014	.00145	-.00044	-.28390	.00304

♀

Analysis Report 10/25/12 10:46:17 AM page 35

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	-.01576	-.00330	.00007	.00353	.00008	.00031
SDev	.00022	.01592	.00098	.00002	.00041	.00146	.00004
%RSD	212.34	101.02	29.739	35.480	11.527	1826.3	11.559
#1	-.00026	-.00450	-.00260	.00005	.00324	.00112	.00029
#2	.00005	-.02702	-.00399	.00008	.00381	-.00096	.00034

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00099	.00164	.00110	.00251	.00182
SDev	.00011	.00007	.00146	.00043	.00006	.00010
%RSD	14.705	6.6873	88.674	38.843	2.4608	5.6400
#1	.00067	.00094	.00061	.00080	.00255	.00175
#2	.00083	.00104	.00268	.00141	.00247	.00189

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33850	--	--	--	--	--	--
SDev	74.24622	--	--	--	--	--	--
%RSD	.2193356	--	--	--	--	--	--
#1	33798	--	--	--	--	--	--
#2	33903	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-2-b du Operator: DCL
Run Time: 10/25/12 10:46:20
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	59.409	.00259	.01726	.71321	.01169	.01462	-.00057
SDev	.200	.00109	.00130	.00227	.00003	.00007	.00001
%RSD	.33708	42.097	7.5613	.31810	.23343	.47869	1.7499
#1	59.551	.00182	.01633	.71481	.01171	.01457	-.00056
#2	59.267	.00337	.01818	.71161	.01167	.01467	-.00058

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.727	.04282	.05327	.03902	39.870	.02101	.11852
SDev	.132	.00005	.00069	.00003	.121	.00008	.00061
%RSD	.24591	.12436	1.2975	.06724	.30459	.37332	.51194
#1	53.820	.04285	.05376	.03904	39.955	.02107	.11895
#2	53.633	.04278	.05278	.03900	39.784	.02096	.11809

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00050	15.988	.31568	.00155	.08259	5.3462	7.3870
SDev	.00268	.052	.00094	.00044	.00076	.0293	.0201
%RSD	533.24	.32420	.29708	28.293	.91534	.54773	.27182
#1	.00139	16.025	.31635	.00186	.08312	5.3669	7.4012
#2	-.00240	15.951	.31502	.00124	.08206	5.3255	7.3728

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00421	.99847	1.0769	.24919	-.01356	.02531	.14400
SDev	.00010	.19669	.0040	.00077	.00373	.00051	.00027
%RSD	2.4827	19.699	.37184	.30981	27.503	2.0160	.19050
#1	-.00414	1.1376	1.0797	.24973	-.01092	.02495	.14419
#2	-.00428	.85939	1.0740	.24864	-.01620	.02567	.14381

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09015	.09694	.11042	.12256	-.00329	.00089
SDev	.00030	.00013	.00176	.00003	.00198	.00303
%RSD	.33440	.13332	1.5890	.02674	60.306	340.11
#1	.09036	.09703	.11166	.12259	-.00189	.00303
#2	.08994	.09685	.10918	.12254	-.00469	-.00125

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36970	--	--	--	--	--	--
SDev	144.9569	--	--	--	--	--	--
%RSD	.3920986	--	--	--	--	--	--
#1	36867	--	--	--	--	--	--
#2	37072	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-2-c ms Operator: DCL
Run Time: 10/25/12 10:50:11
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	111.98	.34695	.90572	1.8351	.46182	.70376	.43818
SDev	.15	.00226	.00010	.0054	.00094	.00282	.00105
%RSD	.13579	.65024	.01134	.29603	.20364	.40118	.23944
#1	111.88	.34535	.90580	1.8312	.46116	.70176	.43744
#2	112.09	.34854	.90565	1.8389	.46249	.70576	.43892

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.145	.96380	.92036	.99337	64.879	.48839	.95828
SDev	.147	.00110	.00244	.00049	.145	.00072	.00294
%RSD	.23627	.11380	.26544	.04961	.22308	.14646	.30638
#1	62.041	.96302	.91864	.99302	64.777	.48788	.95620
#2	62.248	.96457	.92209	.99372	64.982	.48890	.96036

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86349	27.653	1.1514	.86581	.99588	17.149	8.5973
SDev	.00421	.057	.0024	.00263	.00277	.025	.0236
%RSD	.48706	.20716	.21056	.30383	.27820	.14388	.27496
#1	.86052	27.613	1.1497	.86395	.99392	17.132	8.5806
#2	.86647	27.694	1.1531	.86767	.99784	17.167	8.6141

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46526	10.619	10.901	.71042	.89244	.83310	.53305
SDev	.00043	.003	.016	.00208	.00411	.00110	.00136
%RSD	.09317	.02696	.14245	.29314	.46088	.13166	.25488
#1	.46495	10.617	10.890	.70895	.88953	.83233	.53209
#2	.46557	10.621	10.912	.71190	.89535	.83388	.53401

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0043	1.0306	.91329	.98078	.83177	.87936
SDev	.0021	.0041	.00078	.00402	.00127	.00694
%RSD	.21292	.39329	.08507	.40943	.15217	.78937
#1	1.0028	1.0278	.91274	.97794	.83266	.87445
#2	1.0058	1.0335	.91384	.98361	.83087	.88427

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36392	--	--	--	--	--	--
SDev	17.67767	--	--	--	--	--	--
%RSD	.0485750	--	--	--	--	--	--
#1	36405	--	--	--	--	--	--
#2	36380	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-2-d msd Operator: DCL
Run Time: 10/25/12 10:54:02
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	124.20	.34268	.92348	1.9912	.47195	.67015	.44543
SDev	.13	.00076	.00486	.0013	.00078	.00184	.00058
%RSD	.10665	.22125	.52608	.06553	.16438	.27509	.13047
#1	124.10	.34322	.92004	1.9903	.47140	.66885	.44502
#2	124.29	.34215	.92691	1.9921	.47250	.67145	.44585

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	74.727	.97952	1.0612	1.0105	81.543	.50218	1.0299
SDev	.146	.00138	.0021	.0015	.144	.00071	.0001
%RSD	.19587	.14047	.19542	.14408	.17603	.14222	.00796

#1	74.624	.97854	1.0598	1.0095	81.442	.50167	1.0300
#2	74.831	.98049	1.0627	1.0115	81.645	.50268	1.0299

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86524	31.055	1.9471	.87453	1.0251	18.614	8.5529
SDev	.00331	.052	.0033	.00033	.0005	.038	.0122
%RSD	.38274	.16806	.16988	.03759	.05184	.20588	.14308
#1	.86758	31.018	1.9447	.87430	1.0248	18.587	8.5442
#2	.86289	31.092	1.9494	.87476	1.0255	18.641	8.5616

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47352	11.194	11.402	.78368	.91092	.84781	.50020
SDev	.00020	.088	.009	.00090	.00386	.00098	.00074
%RSD	.04299	.78780	.07644	.11442	.42398	.11597	.14768
#1	.47337	11.132	11.396	.78304	.90819	.84711	.49968
#2	.47366	11.256	11.408	.78431	.91365	.84850	.50072

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0364	1.0341	.97734	1.0562	.81623	.88974
SDev	.0020	.0019	.00081	.0005	.00678	.00158
%RSD	.18954	.18762	.08271	.04992	.83109	.17709
#1	1.0350	1.0328	.97676	1.0566	.82102	.89086
#2	1.0378	1.0355	.97791	1.0558	.81143	.88863

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35882	--	--	--	--	--	--
SDev	34.64823	--	--	--	--	--	--
%RSD	.0965629	--	--	--	--	--	--
#1	35906	--	--	--	--	--	--
#2	35857	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-3-a Operator: DCL
Run Time: 10/25/12 10:57:53
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.792	.00251	.02867	.71602	.01000	.01459	-.00060
SDev	.001	.00006	.00125	.00002	.00000	.00023	.00005
%RSD	.00175	2.3468	4.3524	.00247	.01867	1.6113	8.8059
#1	47.793	.00256	.02955	.71601	.01000	.01476	-.00056
#2	47.792	.00247	.02779	.71603	.01000	.01442	-.00063

♀
Analysis Report 10/25/12 11:01:41 AM page 39

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	57.867	.04817	.08271	.04610	43.360	.01814	.08179
SDev	.023	.00002	.00023	.00007	.002	.00003	.00037
%RSD	.03946	.04572	.27830	.15008	.00395	.15680	.45162
#1	57.851	.04819	.08287	.04615	43.361	.01816	.08205
#2	57.883	.04816	.08255	.04605	43.359	.01812	.08153

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00196	12.723	.50351	.00326	.06748	3.4812	6.7630
SDev	.00261	.016	.00025	.00077	.00026	.0008	.0029
%RSD	133.00	.12905	.04986	23.727	.39032	.02192	.04335
#1	.00381	12.711	.50333	.00381	.06766	3.4817	6.7651
#2	.00012	12.734	.50368	.00271	.06729	3.4806	6.7609

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00295	.59549	.69948	.21556	-.00889	.02521	.17975
SDev	.00032	.09635	.00101	.00017	.00595	.00110	.00032
%RSD	10.982	16.181	.14430	.07849	66.881	4.3805	.17868
#1	-.00272	.66362	.69876	.21544	-.00469	.02443	.17952
#2	-.00318	.52735	.70019	.21567	-.01310	.02599	.17997

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13642	.11898	.07785	.08376	-.00037	.00313
SDev	.00002	.00021	.00090	.00011	.00059	.00421
%RSD	.01067	.17545	1.1545	.12494	157.62	134.47
#1	.13643	.11883	.07849	.08383	-.00079	.00610
#2	.13641	.11913	.07722	.08368	.00004	.00015

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37216	--	--	--	--	--	--
SDev	16.97056	--	--	--	--	--	--
%RSD	.0456002	--	--	--	--	--	--
#1	37204	--	--	--	--	--	--
#2	37228	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-4-a Operator: DCL
Run Time: 10/25/12 11:01:44
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.282	.00261	.01633	1.6135	.00700	.03098	-.00067
SDev	.357	.00018	.00218	.0061	.00001	.00050	.00002
%RSD	.42349	6.9628	13.344	.37544	.13563	1.6063	3.4639
#1	84.534	.00248	.01787	1.6178	.00701	.03133	-.00069
#2	84.029	.00274	.01479	1.6092	.00699	.03062	-.00066

♀

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.057	.08269	.00788	.04133	52.580	.03418	.07496
SDev	.249	.00012	.00002	.00024	.150	.00013	.00037
%RSD	.29623	.14515	.24102	.58377	.28452	.38227	.49751
#1	84.233	.08278	.00787	.04150	52.686	.03428	.07522
#2	83.881	.08261	.00790	.04116	52.474	.03409	.07469

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00182	22.581	.20788	.00148	.02995	3.2934	7.5221
SDev	.00273	.069	.00064	.00125	.00082	.0138	.0279
%RSD	150.32	.30697	.30888	84.637	2.7559	.41826	.37040
#1	-.00375	22.630	.20833	.00236	.02937	3.3031	7.5418
#2	.00011	22.532	.20742	.00059	.03054	3.2836	7.5024

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00070	12.939	12.703	.45025	-.00781	.02834	.19167
SDev	.00019	.111	.063	.00155	.00268	.00053	.00075
%RSD	27.602	.85604	.49923	.34443	34.349	1.8806	.39086
#1	-.00056	13.018	12.748	.45135	-.00971	.02797	.19220
#2	-.00083	12.861	12.658	.44915	-.00591	.02872	.19114

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15511	.12689	.06827	.07830	-.00856	.00155
SDev	.00038	.00071	.00033	.00040	.00042	.00388
%RSD	.24745	.55536	.47929	.50545	4.9239	249.70
#1	.15538	.12739	.06851	.07858	-.00885	-.00119
#2	.15484	.12640	.06804	.07802	-.00826	.00430

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35252	--	--	--	--	--	--
SDev	31.81980	--	--	--	--	--	--
%RSD	.0902651	--	--	--	--	--	--
#1	35229	--	--	--	--	--	--
#2	35274	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63278-a-5-a Operator: DCL
Run Time: 10/25/12 11:05:35
Comment: TRACE 61E
♀
Analysis Report 10/25/12 11:09:23 AM page 41

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	76.838	.00180	.01866	.82886	.00773	.01115	-.00077
SDev	.173	.00011	.00039	.00108	.00001	.00086	.00000
%RSD	.22519	5.8547	2.0678	.13069	.15659	7.7371	.35946

#1	76.960	.00173	.01839	.82962	.00772	.01176	-.00076
#2	76.715	.00188	.01893	.82809	.00774	.01054	-.00077

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.911	.07553	.00746	.02722	53.113	.02919	.07922
SDev	.052	.00047	.00004	.00023	.107	.00004	.00101
%RSD	.16444	.62615	.56261	.84377	.20132	.13496	1.2703
#1	31.948	.07586	.00749	.02738	53.189	.02922	.07851
#2	31.874	.07519	.00744	.02706	53.038	.02917	.07993

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00134	16.032	.16185	.00125	.02930	1.7680	6.2890
SDev	.00191	.030	.00038	.00113	.00018	.0010	.0178
%RSD	141.85	.18860	.23636	90.658	.61119	.05876	.28289
#1	-.00000	16.053	.16212	.00204	.02943	1.7687	6.3015
#2	.00269	16.010	.16158	.00045	.02918	1.7672	6.2764

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00109	6.2570	6.1748	.25558	-.00930	.02390	.15364
SDev	.00037	.0177	.0010	.00026	.00347	.00151	.00029
%RSD	34.057	.28287	.01683	.10309	37.299	6.3100	.18837
#1	-.00083	6.2695	6.1755	.25576	-.01175	.02497	.15385
#2	-.00135	6.2444	6.1740	.25539	-.00684	.02284	.15344

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15385	.11102	.06991	.08388	-.00537	.00470
SDev	.00046	.00010	.00009	.00155	.00202	.00185
%RSD	.30036	.08547	.12212	1.8506	37.710	39.295
#1	.15417	.11109	.06997	.08278	-.00680	.00339
#2	.15352	.11095	.06985	.08497	-.00394	.00601

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36304	--	--	--	--	--	--
SDev	93.33810	--	--	--	--	--	--
%RSD	.2571014	--	--	--	--	--	--
#1	36238	--	--	--	--	--	--
#2	36370	--	--	--	--	--	--

Analysis Report 10/25/12 11:09:23 AM page 42

Method: 20076010 Sample Name: 600-63278-a-6-a Operator: DCL
Run Time: 10/25/12 11:09:26
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	78.778	.00248	.01544	1.0117	.00737	.01140	-.00081
SDev	.118	.00174	.00044	.0007	.00006	.00004	.00003

%RSD	.14928	70.382	2.8837	.07095	.75445	.35807	3.4269
#1	78.861	.00371	.01576	1.0122	.00741	.01143	-.00079
#2	78.694	.00124	.01513	1.0112	.00733	.01137	-.00083

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	38.208	.07757	.00944	.02623	52.334	.03058	.07278
SDev	.055	.00010	.00026	.00003	.053	.00001	.00008
%RSD	.14379	.13109	2.7279	.09374	.10210	.04141	.11558
#1	38.247	.07750	.00962	.02621	52.372	.03057	.07284
#2	38.169	.07764	.00926	.02625	52.296	.03059	.07272

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00031	13.303	.21901	.00121	.03132	1.7250	7.2041
SDev	.00225	.029	.00040	.00041	.00021	.0002	.0136
%RSD	726.47	.21849	.18035	34.072	.66917	.01251	.18831
#1	.00128	13.324	.21929	.00092	.03117	1.7251	7.2137
#2	-.00190	13.283	.21873	.00150	.03147	1.7248	7.1945

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00075	3.3376	3.4079	.22216	-.00884	.02596	.21319
SDev	.00032	.1361	.0016	.00006	.00141	.00028	.00024
%RSD	42.712	4.0782	.04696	.02710	15.886	1.0635	.11502
#1	-.00052	3.4339	3.4068	.22211	-.00785	.02615	.21336
#2	-.00097	3.2414	3.4091	.22220	-.00984	.02576	.21301

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15069	.12219	.06443	.07695	-.00545	.00226
SDev	.00008	.00018	.00219	.00097	.00283	.00196
%RSD	.05555	.14966	3.4032	1.2607	51.931	86.845
#1	.15063	.12232	.06598	.07627	-.00345	.00365
#2	.15075	.12206	.06288	.07764	-.00745	.00087

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35566	--	--	--	--	--	--

Analysis Report 10/25/12 11:13:14 AM page 43

SDev	21.92031	--	--	--	--	--	--
%RSD	.0616319	--	--	--	--	--	--
#1	35551	--	--	--	--	--	--
#2	35582	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-63080-a-17-d Operator: DCL
Run Time: 10/25/12 11:13:17
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Page 46

Avge	287.19	.89762	.95764	1.4329	.44840	.92978	.41503
SDev	.71	.00037	.00150	.0056	.00089	.00431	.00112
%RSD	.24567	.04152	.15609	.39418	.19879	.46400	.27084
#1	286.69	.89788	.95658	1.4289	.44777	.92673	.41423
#2	287.69	.89735	.95870	1.4369	.44903	.93283	.41582

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	114.96	1.1079	.92641	1.1195	314.61	.77951	.98596
SDev	.28	.0023	.00253	.0027	.79	.00228	.00293
%RSD	.24180	.21040	.27278	.24261	.25057	.29204	.29751
#1	114.76	1.1062	.92463	1.1176	314.05	.77790	.98388
#2	115.15	1.1095	.92820	1.1214	315.17	.78112	.98803

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.85101	106.46	2.6175	.90669	1.1088	43.646	8.1059
SDev	.00726	.26	.0060	.00308	.0047	.041	.0273
%RSD	.85320	.24010	.22844	.34017	.42205	.09415	.33700
#1	.84588	106.28	2.6132	.90451	1.1055	43.617	8.0866
#2	.85615	106.64	2.6217	.90887	1.1121	43.675	8.1252

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46415	26.137	27.052	1.1014	.82616	.89625	1.1875
SDev	.00002	.124	.065	.0039	.00310	.00040	.0032
%RSD	.00487	.47405	.23882	.35730	.37486	.04500	.27079
#1	.46413	26.224	27.007	1.0986	.82397	.89653	1.1853
#2	.46416	26.049	27.098	1.1042	.82835	.89596	1.1898

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2781	1.5073	.92169	1.0181	.80766	.87269
SDev	.0035	.0045	.00133	.0051	.00206	.00986
%RSD	.27362	.29723	.14430	.49750	.25500	1.1300
#1	1.2756	1.5041	.92263	1.0145	.80621	.86572
#2	1.2806	1.5104	.92075	1.0217	.80912	.87966

♀

Analysis Report 10/25/12 11:17:05 AM page 44

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36000	--	--	--	--	--	--
SDev	6.363961	--	--	--	--	--	--
%RSD	.0176774	--	--	--	--	--	--
#1	35996	--	--	--	--	--	--
#2	36005	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-63080-a-17d@5 Operator: DCL
Run Time: 10/25/12 11:17:08
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	60.959	.00281	.01688	.11211	.00355	.00909	-.00091
SDev	.532	.00119	.00184	.00112	.00006	.00070	.00001
%RSD	.87314	42.162	10.923	1.0013	1.6194	7.6944	.83956
#1	61.335	.00365	.01818	.11290	.00351	.00958	-.00092
#2	60.583	.00198	.01557	.11132	.00359	.00859	-.00091

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.788	.05585	.01839	.03710	65.256	.05503	.03396
SDev	.231	.00068	.00019	.00035	.647	.00048	.00115
%RSD	.96940	1.2117	1.0629	.94742	.99170	.86961	3.4020
#1	23.951	.05633	.01825	.03735	65.713	.05537	.03478
#2	23.625	.05537	.01853	.03685	64.798	.05469	.03314

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00248	21.100	.38908	.00328	.05691	6.3383	1.5850
SDev	.00105	.196	.00415	.00089	.00067	.0564	.0184
%RSD	42.385	.92668	1.0669	27.145	1.1808	.88914	1.1592
#1	.00322	21.239	.39202	.00391	.05738	6.3782	1.5980
#2	.00173	20.962	.38615	.00265	.05643	6.2985	1.5720

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00047	3.1138	3.1084	.13736	-.00753	.00818	.06495
SDev	.00015	.0242	.0205	.00140	.00489	.00148	.00062
%RSD	31.995	.77784	.65978	1.0187	64.943	18.075	.95171
#1	-.00036	3.1309	3.1229	.13835	-.00407	.00713	.06539
#2	-.00057	3.0967	3.0939	.13637	-.01099	.00922	.06451

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.08834	.13752	.02789	.03699	-.00176	.00459	
SDev	.00088	.00143	.00231	.00058	.00269	.00292	
%RSD	.99755	1.0389	8.2636	1.5694	152.77	63.514	♀

#1	.08896	.13853	.02952	.03740	-.00366	.00666	
#2	.08771	.13651	.02626	.03658	.00014	.00253	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34389	--	--	--	--	--	--
SDev	178.1909	--	--	--	--	--	--
%RSD	.5181625	--	--	--	--	--	--
#1	34263	--	--	--	--	--	--
#2	34515	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 11:20:59
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4981	.49742	.49741	.49282	.48409	.50134	.49187
SDev	.0222	.00158	.00134	.00093	.00145	.00141	.00093
%RSD	.88737	.31713	.26923	.18911	.30061	.28073	.18909
#1	2.4824	.49854	.49836	.49348	.48512	.50234	.49253
#2	2.5138	.49631	.49646	.49216	.48306	.50035	.49121

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.137	.48223	.48046	.49318	2.4900	.45854	.47950
SDev	.019	.00138	.00141	.00060	.0285	.00055	.00168
%RSD	.16008	.28715	.29348	.12172	1.1450	.11930	.35053
#1	12.151	.48321	.48146	.49360	2.4699	.45893	.48068
#2	12.123	.48126	.47947	.49275	2.5102	.45816	.47831

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48718	4.7801	.48340	.50253	.49519	11.938	.94678
SDev	.00287	.0064	.00126	.00127	.00095	.013	.00289
%RSD	.58837	.13293	.26084	.25172	.19211	.10647	.30489
#1	.48515	4.7846	.48429	.50342	.49586	11.947	.94882
#2	.48921	4.7756	.48250	.50163	.49451	11.929	.94474

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24758	12.439	12.054	.24518	.50797	.48896	.49316
SDev	.00106	.022	.002	.00035	.00163	.00046	.00085
%RSD	.42982	.17924	.01435	.14318	.32107	.09367	.17300
#1	.24833	12.454	12.053	.24543	.50681	.48928	.49376
#2	.24683	12.423	12.055	.24493	.50912	.48863	.49256

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49183	.50358	.45103	.49373	.45901	.50133
SDev	.00117	.00081	.00082	.00293	.00056	.00458
%RSD	.23702	.16061	.18263	.59405	.12291	.91390
#1	.49266	.50415	.45045	.49580	.45940	.49809
#2	.49101	.50301	.45162	.49165	.45861	.50457

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33906	--	--	--	--	--	--
SDev	16.26346	--	--	--	--	--	--
%RSD	.0479670	--	--	--	--	--	--
#1	33917	--	--	--	--	--	--
#2	33894	--	--	--	--	--	--

Analysis Report 10/25/12 11:24:46 AM page 46

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 11:24:49
Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04969	.00274	.00028	.00010	-.00063	.00148	.00000
SDev	.00623	.00203	.00030	.00000	.00001	.00020	.00010
%RSD	12.532	74.064	106.21	2.6996	1.7883	13.406	24853.
#1	.04528	.00131	.00049	.00010	-.00063	.00134	.00007
#2	.05409	.00418	.00007	.00010	-.00062	.00162	-.00007

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00051	-.00002	-.00025	-.00157	.00023	-.00040	.00123
SDev	.00256	.00023	.00013	.00014	.02164	.00000	.00062
%RSD	505.30	999.82	53.608	8.5885	9304.1	.26224	50.322
#1	-.00232	-.00019	-.00034	-.00148	-.01507	-.00040	.00079
#2	.00130	.00014	-.00015	-.00167	.01553	-.00040	.00167

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00452	-.03088	.00010	.00199	-.00035	-.22083	.00023
SDev	.00388	.00239	.00009	.00036	.00063	.00048	.00018
%RSD	85.920	7.7402	88.716	18.128	178.92	.21562	79.728
#1	.00726	-.03257	.00004	.00224	-.00080	-.22117	.00036
#2	.00177	-.02919	.00017	.00173	.00009	-.22049	.00010

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	-.11546	-.00342	.00005	.00355	-.00025	.00016
SDev	.00042	.00996	.00025	.00002	.00137	.00260	.00001
%RSD	1101.2	8.6283	7.3484	43.120	38.709	1036.0	8.7417

♀

Analysis Report 10/25/12 11:28:37 AM page 47

#1	-.00026	-.12251	-.00324	.00003	.00452	-.00209	.00017
#2	.00034	-.10842	-.00359	.00006	.00258	.00159	.00015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	-.00027	.00167	.00101	.00853	.00251
SDev	.00012	.00001	.00058	.00064	.00052	.00556
%RSD	49.550	3.9508	34.469	63.428	6.1025	221.68
#1	.00015	-.00028	.00126	.00056	.00890	.00644
#2	.00032	-.00026	.00208	.00146	.00816	-.00142

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34018	--	--	--	--	--	--
SDev	60.81118	--	--	--	--	--	--
%RSD	.1787618	--	--	--	--	--	--
#1	33975	--	--	--	--	--	--
#2	34061	--	--	--	--	--	--

♀

Analysis Report 10/25/12 11:36:47 AM page 1

Method: 20076010 Sample Name: mb 600-91804/1-a Operator: DCL
Run Time: 10/25/12 11:32:59
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04842	.00026	.00177	.00050	-.00060	.00040	.00007
SDev	.00316	.00038	.00052	.00005	.00002	.00012	.00015
%RSD	6.5332	148.01	29.161	9.9366	3.5856	29.598	223.00
#1	.04619	.00053	.00213	.00046	-.00058	.00032	.00018
#2	.05066	-.00001	.00140	.00053	-.00061	.00048	-.00004

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01635	.00015	-.00000	.00028	.01516	-.00054	.00087
SDev	.00107	.00029	.00026	.00011	.00490	.00002	.00028
%RSD	6.5641	194.47	39315.	39.333	32.302	4.3579	32.464
#1	-.01711	.00036	-.00018	.00036	.01170	-.00056	.00067
#2	-.01559	-.00006	.00018	.00021	.01862	-.00052	.00107

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00341	-.04461	.00013	-.00004	-.00063	-.28480	-.00260
SDev	.00415	.00355	.00002	.00026	.00012	.02534	.00175
%RSD	121.71	7.9490	15.338	616.11	19.733	8.8982	67.137
#1	.00047	-.04712	.00011	-.00023	-.00071	-.30272	-.00137
#2	.00634	-.04210	.00014	.00014	-.00054	-.26688	-.00384

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	-.10631	-.02796	.00003	.00010	.00067	.00003
SDev	.00022	.05818	.00217	.00001	.00456	.00179	.00003
%RSD	5064.3	54.730	7.7476	18.948	4539.7	266.26	120.82
#1	-.00016	-.14745	-.02950	.00004	.00333	-.00059	.00005
#2	.00015	-.06517	-.02643	.00003	-.00313	.00193	.00000

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00004	.00180	.00117	.00072	.00442	.00290
SDev	.00012	.00019	.00047	.00066	.00320	.00462
%RSD	317.60	10.686	39.847	91.423	72.502	159.14
#1	.00005	.00167	.00150	.00025	.00215	-.00036
#2	-.00012	.00194	.00084	.00118	.00668	.00617

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34258	--	--	--	--	--	--
SDev	226.2742	--	--	--	--	--	--
%RSD	.6605002	--	--	--	--	--	--

#1	34418	--	--	--	--	--	--

#2	34098	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-91804/2-a Operator: DCL
Run Time: 10/25/12 11:36:50
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.163	1.0373	1.0330	1.0336	.49833	1.0459	.50758
SDev	.002	.0002	.0034	.0003	.00122	.0023	.00032
%RSD	.01803	.01988	.32847	.02593	.24463	.21574	.06220
#1	10.162	1.0375	1.0354	1.0338	.49919	1.0443	.50780
#2	10.164	1.0372	1.0306	1.0334	.49747	1.0475	.50735

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.080	.99551	.99383	1.0306	10.254	.48147	.98574
SDev	.022	.00219	.00239	.0005	.026	.00009	.00148
%RSD	.21783	.22039	.24048	.04895	.24962	.01810	.14999
#1	10.096	.99707	.99552	1.0309	10.272	.48141	.98678
#2	10.064	.99396	.99214	1.0302	10.236	.48153	.98469

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0062	9.8982	1.0009	1.0592	1.0367	10.106	.99709
SDev	.0002	.0222	.0028	.0006	.0012	.014	.00035
%RSD	.02395	.22448	.28136	.05216	.11800	.13656	.03489
#1	1.0064	9.9139	1.0029	1.0588	1.0359	10.115	.99733
#2	1.0060	9.8824	.99894	1.0596	1.0376	10.096	.99684

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51787	10.103	10.255	.51492	1.0477	1.0050	1.0358
SDev	.00081	.021	.012	.00035	.0052	.0018	.0016
%RSD	.15601	.21212	.11382	.06776	.49936	.17695	.15400
#1	.51844	10.118	10.247	.51517	1.0440	1.0062	1.0370
#2	.51730	10.088	10.263	.51468	1.0514	1.0037	1.0347

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0153	1.0410	.92262	1.0173	.94083	1.0389
SDev	.0025	.0012	.00134	.0015	.00206	.0014
%RSD	.24962	.11480	.14543	.15205	.21936	.13412
#1	1.0171	1.0419	.92357	1.0184	.93937	1.0399
#2	1.0135	1.0402	.92167	1.0162	.94229	1.0379

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/25/12 11:40:38 AM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33643	--	--	--	--	--	--
SDev	89.09545	--	--	--	--	--	--
%RSD	.2648261	--	--	--	--	--	--

#1	33580	--	--	--	--	--	--
#2	33706	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-1-a Operator: DCL
Run Time: 10/25/12 11:40:41
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06503	.00151	.00225	.03018	-.00095	.09087	.00028
SDev	.00537	.00177	.00185	.00007	.00006	.00068	.00015
%RSD	8.2565	117.53	81.927	.22888	6.0912	.74637	54.558
#1	.06124	.00276	.00356	.03014	-.00100	.09135	.00017
#2	.06883	.00025	.00095	.03023	-.00091	.09039	.00039

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	104.51	.00003	-.00028	-.00059	.15732	.03439	.00065
SDev	.12	.00005	.00008	.00009	.00650	.00008	.00009
%RSD	.11775	188.56	29.482	15.394	4.1342	.23165	13.311
#1	104.42	-.00001	-.00022	-.00052	.15272	.03434	.00072
#2	104.60	.00006	-.00034	-.00065	.16192	.03445	.00059

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00339	77.962	.00059	.00351	.00107	8.2401	25.098
SDev	.00008	.051	.00013	.00110	.00012	.0074	.001
%RSD	2.2358	.06508	22.638	31.331	11.158	.09017	.00391
#1	.00334	77.926	.00049	.00429	.00099	8.2349	25.097
#2	.00345	77.998	.00068	.00273	.00115	8.2454	25.098

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	89.758	79.023	1.5439	.00635	.00162	-.00045
SDev	.00009	.068	.016	.0016	.00194	.00031	.00007
%RSD	21.347	.07610	.01963	.10376	30.563	19.101	16.206
#1	.00037	89.806	79.013	1.5427	.00772	.00140	-.00050
#2	.00050	89.710	79.034	1.5450	.00498	.00184	-.00040

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00561	-.00023	.00024	.00086	.00572	.00223
SDev	.00024	.00033	.00016	.00021	.00140	.00059
%RSD	4.3751	147.88	66.328	24.272	24.427	26.189
#1	.00544	-.00046	.00013	.00101	.00473	.00265

#2	.00578	.00001	.00035	.00071	.00671	.00182

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32922	--	--	--	--	--	--
SDev	45.96194	--	--	--	--	--	--

%RSD	.1396107	--	--	--	--	--	--
#1	32954	--	--	--	--	--	--
#2	32889	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-2-a Operator: DCL
Run Time: 10/25/12 11:44:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07610	-.00092	.00372	.06993	-.00120	.50495	.00128
SDev	.00102	.00064	.00008	.00018	.00001	.00127	.00011
%RSD	1.3415	69.287	2.1023	.26237	.86065	.25089	8.4173
#1	.07538	-.00137	.00366	.07006	-.00120	.50584	.00120
#2	.07683	-.00047	.00377	.06980	-.00119	.50405	.00136

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	144.02	-.00009	.00450	.00037	.10344	.03414	.00107
SDev	.40	.00005	.00006	.00012	.00233	.00011	.00124
%RSD	.27633	57.005	1.4083	32.854	2.2566	.31521	115.29
#1	144.30	-.00005	.00454	.00046	.10509	.03421	.00195
#2	143.74	-.00012	.00445	.00029	.10179	.03406	.00020

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00305	43.234	-.00050	.00412	.02703	5.8635	12.147
SDev	.00240	.131	.00000	.00106	.00005	.0261	.042
%RSD	78.701	.30311	.33483	25.827	.16621	.44550	.34219
#1	.00476	43.327	-.00051	.00487	.02707	5.8819	12.177
#2	.00135	43.141	-.00050	.00337	.02700	5.8450	12.118

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	604.28	379.88	.94647	.00222	.00020	-.00080
SDev	.00002	2.13	2.03	.00253	.00106	.00145	.00003
%RSD	113.56	.35284	.53448	.26743	47.834	734.42	3.7789
#1	-.00004	605.78	381.31	.94826	.00147	.00123	-.00082
#2	-.00000	602.77	378.44	.94468	.00297	-.00083	-.00078

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00657	-.00031	.00372	-.00025	.00422	.00247

SDev	.00011	.00002	.00044	.00164	.00523	.00099
%RSD	1.5977	7.8262	11.719	653.81	123.92	40.080
#1	.00650	-.00033	.00403	.00091	.00792	.00317
#2	.00665	-.00029	.00341	-.00141	.00052	.00177

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32044	--	--	--	--	--	--

SDev	62.93250	--	--	--	--	--	--
%RSD	.1963910	--	--	--	--	--	--
#1	32000	--	--	--	--	--	--
#2	32089	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-3-a Operator: DCL
Run Time: 10/25/12 11:48:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07124	.00231	.00498	.19083	-.00099	.42468	.00086
SDev	.00013	.00036	.00138	.00171	.00004	.00464	.00003
%RSD	.18275	15.558	27.760	.89540	4.3491	1.0924	3.9467
#1	.07115	.00256	.00596	.19204	-.00102	.42796	.00089
#2	.07133	.00205	.00400	.18962	-.00096	.42140	.00084

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	207.65	-.00016	.00180	-.00128	1.5708	.09321	.00071
SDev	1.83	.00015	.00013	.00040	.0250	.00092	.00088
%RSD	.88052	92.638	7.2828	31.047	1.5938	.98327	122.61
#1	208.94	-.00026	.00171	-.00156	1.5885	.09386	.00009
#2	206.35	-.00005	.00189	-.00100	1.5531	.09256	.00133

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	88.297	1.6035	.00773	.03442	9.9962	14.602
SDev	.00025	.805	.0144	.00004	.00068	.1107	.145
%RSD	47.862	.91134	.89772	.48908	1.9623	1.1072	.99362
#1	-.00070	88.866	1.6137	.00771	.03490	10.075	14.704
#2	-.00035	87.728	1.5933	.00776	.03394	9.9180	14.499

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	521.14	337.49	3.4615	-.00116	-.00021	-.00122
SDev	.00005	4.57	2.69	.0308	.00046	.00048	.00009
%RSD	13.643	.87705	.79824	.88943	39.548	229.05	7.0222
#1	.00037	524.37	339.40	3.4832	-.00149	.00013	-.00128
#2	.00030	517.91	335.59	3.4397	-.00084	-.00054	-.00116

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	-.00010	.00053	.00081	.00094	-.00126
SDev	.00062	.00014	.00015	.00124	.00077	.00076
%RSD	309.59	141.40	28.896	153.37	81.528	60.447
#1	-.00024	-.00020	.00042	-.00007	.00148	-.00180
#2	.00064	-.00000	.00064	.00168	.00040	-.00072

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	32862	--	--	--	--	--	--
SDev	166.1701	--	--	--	--	--	--
%RSD	.5056680	--	--	--	--	--	--
#1	32744	--	--	--	--	--	--
#2	32979	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-4-a Operator: DCL
Run Time: 10/25/12 11:52:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06201	-.00064	.01178	.48889	-.00091	.14629	.00006
SDev	.00078	.00149	.00189	.00173	.00005	.00121	.00021
%RSD	1.2663	233.62	16.033	.35329	5.9987	.82764	370.36
#1	.06257	-.00169	.01311	.49011	-.00095	.14715	-.00009
#2	.06146	.00042	.01044	.48767	-.00087	.14543	.00021

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.906	.00085	-.00042	-.00169	.11950	.03882	.00117
SDev	.220	.00026	.00013	.00013	.00277	.00015	.00016
%RSD	.34897	30.599	30.780	7.7553	2.3208	.37314	13.504
#1	63.061	.00103	-.00033	-.00160	.12147	.03893	.00106
#2	62.750	.00066	-.00051	-.00179	.11754	.03872	.00128

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00110	57.831	-.00089	.00198	-.00066	2.7706	22.490
SDev	.00014	.233	.00006	.00009	.00010	.0290	.081
%RSD	12.374	.40302	6.5962	4.3784	15.039	1.0483	.35996
#1	.00119	57.996	-.00093	.00191	-.00073	2.7911	22.547
#2	.00100	57.667	-.00085	.00204	-.00059	2.7501	22.433

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00031	9.1116	9.0321	2.3740	.00175	.00029	-.00038
SDev	.00005	.0951	.0073	.0042	.00178	.00088	.00003

%RSD	15.856	1.0439	.08135	.17583	101.78	305.71	6.8808
#1	-.00034	9.0443	9.0269	2.3769	.00301	-.00033	-.00037
#2	-.00027	9.1789	9.0373	2.3710	.00049	.00091	-.00040

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00466	-.00058	.00114	.00118	.00224	.00053
SDev	.00002	.00010	.00001	.00024	.00072	.00016
%RSD	.39277	17.867	.49903	20.295	32.117	29.794
#1	.00467	-.00065	.00115	.00101	.00275	.00041
#2	.00464	-.00050	.00114	.00135	.00173	.00064

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Wavlen	371.030	--	--	--	--	--	--
Avge	33357	--	--	--	--	--	--
SDev	144.2498	--	--	--	--	--	--
%RSD	.4324423	--	--	--	--	--	--
#1	33255	--	--	--	--	--	--
#2	33459	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-4-b du Operator: DCL
Run Time: 10/25/12 11:56:05
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06351	-.00049	.01290	.48650	-.00091	.14447	.00000
SDev	.00060	.00083	.00086	.00176	.00002	.00031	.00004
%RSD	.95086	169.39	6.6440	.36094	1.9675	.21278	1109.2
#1	.06394	.00010	.01229	.48526	-.00090	.14425	.00003
#2	.06308	-.00108	.01350	.48774	-.00092	.14468	-.00002

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.608	.00078	-.00010	-.00163	.13664	.03857	.00087
SDev	.209	.00007	.00006	.00009	.00202	.00016	.00016
%RSD	.33377	8.7338	58.442	5.6788	1.4804	.42708	18.700
#1	62.461	.00073	-.00006	-.00156	.13807	.03845	.00099
#2	62.756	.00083	-.00014	-.00169	.13521	.03869	.00076

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00308	57.481	-.00091	.00158	-.00056	2.7820	22.321
SDev	.00221	.187	.00002	.00053	.00033	.0270	.070
%RSD	71.620	.32493	1.7953	33.341	60.064	.97062	.31256
#1	.00464	57.349	-.00092	.00196	-.00032	2.7629	22.272
#2	.00152	57.614	-.00090	.00121	-.00079	2.8011	22.370

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	9.1866	8.9283	2.3564	.00074	.00085	-.00031
SDev	.00034	.0145	.0398	.0064	.00084	.00103	.00009
%RSD	119.76	.15800	.44631	.27311	114.14	120.49	28.542
#1	.00053	9.1969	8.9001	2.3519	.00133	.00013	-.00025
#2	.00004	9.1763	8.9565	2.3610	.00014	.00158	-.00038

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00509	-.00084	.00041	.00110	.00478	.00223
SDev	.00002	.00010	.00117	.00034	.00144	.00403
%RSD	.35658	11.844	284.45	30.775	30.110	180.49
#1	.00508	-.00091	.00124	.00086	.00376	.00508
#2	.00511	-.00077	-.00042	.00134	.00579	-.00062

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33304	--	--	--	--	--	--
SDev	159.0990	--	--	--	--	--	--
%RSD	.4777103	--	--	--	--	--	--
#1	33417	--	--	--	--	--	--
#2	33192	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-4-c ms Operator: DCL
Run Time: 10/25/12 11:59:56
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.156	1.0420	1.0514	1.5381	.49565	1.2153	.50041
SDev	.004	.0027	.0047	.0011	.00085	.0008	.00018
%RSD	.03650	.25506	.44803	.07085	.17107	.06454	.03623
#1	10.159	1.0438	1.0548	1.5389	.49625	1.2159	.50028
#2	10.154	1.0401	1.0481	1.5373	.49505	1.2148	.50053

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	73.533	.98269	.96659	1.0210	10.274	.55682	.97535
SDev	.058	.00073	.00169	.0024	.013	.00084	.00123
%RSD	.07822	.07412	.17495	.23569	.12972	.15138	.12630
#1	73.573	.98321	.96778	1.0227	10.283	.55742	.97622
#2	73.492	.98218	.96539	1.0193	10.264	.55622	.97448

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0142	68.619	.99074	1.0557	1.0133	14.130	23.733
SDev	.0005	.084	.00109	.0024	.0019	.026	.041
%RSD	.05378	.12170	.10955	.23025	.19010	.18435	.17152

#1	1.0146	68.678	.99151	1.0540	1.0147	14.148	23.762
#2	1.0138	68.560	.98997	1.0574	1.0120	14.111	23.704

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52557	20.146	20.337	2.9702	1.0578	.99422	1.0260
SDev	.00093	.000	.015	.0034	.0060	.00081	.0008
%RSD	.17768	.00236	.07459	.11587	.56456	.08128	.07541
#1	.52623	20.146	20.348	2.9726	1.0536	.99365	1.0266
#2	.52491	20.147	20.326	2.9678	1.0620	.99480	1.0255

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0155	1.0363	.89946	1.0133	.92993	1.0563
SDev	.0016	.0005	.00198	.0009	.00191	.0001
%RSD	.15502	.04523	.22045	.08451	.20554	.01303
#1	1.0166	1.0366	.90086	1.0139	.93128	1.0562
#2	1.0143	1.0360	.89806	1.0127	.92857	1.0564

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33070	--	--	--	--	--	--
SDev	24.74874	--	--	--	--	--	--
%RSD	.0748386	--	--	--	--	--	--
#1	33087	--	--	--	--	--	--
#2	33052	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-4-d msd Operator: DCL
Run Time: 10/25/12 12:03:47
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.167	1.0525	1.0532	1.5364	.49690	1.2258	.50167
SDev	.058	.0013	.0093	.0063	.00215	.0034	.00107
%RSD	.57091	.12357	.88183	.40822	.43318	.28047	.21339
#1	10.208	1.0516	1.0598	1.5408	.49843	1.2283	.50243
#2	10.125	1.0534	1.0466	1.5319	.49538	1.2234	.50091

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.799	.98397	.96786	1.0213	10.290	.55755	.97972
SDev	.287	.00473	.00429	.0055	.060	.00239	.00888
%RSD	.39466	.48113	.44298	.53528	.58247	.42850	.90624
#1	73.002	.98732	.97089	1.0252	10.333	.55924	.98600
#2	72.596	.98062	.96483	1.0174	10.248	.55586	.97344

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0260	67.904	.99150	1.0667	1.0132	14.091	23.469
SDev	.0039	.297	.00418	.0029	.0017	.062	.125
%RSD	.38441	.43681	.42144	.27649	.16985	.44150	.53349
#1	1.0288	68.114	.99445	1.0688	1.0144	14.135	23.558
#2	1.0232	67.695	.98854	1.0646	1.0120	14.047	23.381

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52681	20.136	20.251	2.9438	1.0636	1.0048	1.0350
SDev	.00279	.127	.109	.0099	.0083	.0056	.0040
%RSD	.53010	.62924	.53632	.33711	.78331	.55694	.38680
#1	.52879	20.226	20.328	2.9508	1.0695	1.0088	1.0378
#2	.52484	20.046	20.174	2.9368	1.0577	1.0009	1.0322

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0166	1.0381	.89608	1.0215	.93306	1.0725
SDev	.0044	.0051	.00446	.0111	.00092	.0064
%RSD	.43440	.49218	.49780	1.0854	.09891	.59466
#1	1.0198	1.0417	.89924	1.0294	.93241	1.0770
#2	1.0135	1.0344	.89293	1.0137	.93371	1.0680

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33152	--	--	--	--	--	--
SDev	55.15433	--	--	--	--	--	--
%RSD	.1663680	--	--	--	--	--	--
#1	33113	--	--	--	--	--	--
#2	33191	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-5-a Operator: DCL
Run Time: 10/25/12 12:07:38
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25811	-.00053	.00573	.03143	-.00107	.43132	.00007
SDev	.00478	.00124	.00115	.00021	.00002	.00101	.00022
%RSD	1.8536	233.71	19.986	.67363	2.1577	.23342	299.17
#1	.25472	-.00141	.00492	.03128	-.00105	.43061	-.00008
#2	.26149	.00035	.00654	.03158	-.00108	.43203	.00023

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.796	.00577	-.00005	.00088	.30780	.03943	.00134
SDev	.111	.00009	.00073	.00016	.00735	.00027	.00033
%RSD	.16629	1.5011	1488.4	18.613	2.3887	.67626	24.947

#1	66.718	.00583	.00047	.00100	.31300	.03924	.00157
#2	66.875	.00571	-.00057	.00076	.30260	.03962	.00110

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00631	46.212	.00991	.00664	.00008	8.6451	10.843
SDev	.00014	.046	.00002	.00214	.00007	.0121	.048
%RSD	2.1823	.10038	.22994	32.202	89.336	.14002	.43887
#1	.00641	46.179	.00993	.00815	.00013	8.6365	10.809
#2	.00621	46.244	.00990	.00513	.00003	8.6537	10.877

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00027	237.53	179.64	1.3404	.00664	-.00020	.00529
SDev	.00085	1.49	.60	.0071	.00662	.00005	.00080
%RSD	316.51	.62640	.33479	.53063	99.654	24.067	15.064
#1	.00033	236.48	179.21	1.3354	.01133	-.00024	.00585
#2	-.00087	238.58	180.06	1.3455	.00196	-.00017	.00472

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01253	.00053	.00049	.00176	.00725	.00584
SDev	.00013	.00001	.00033	.00034	.00085	.00063
%RSD	1.0243	.89438	66.995	19.124	11.753	10.830
#1	.01262	.00053	.00072	.00200	.00665	.00629

#2	.01244	.00053	.00026	.00153	.00785	.00539

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32932	--	--	--	--	--	--
SDev	123.0366	--	--	--	--	--	--
%RSD	.3736080	--	--	--	--	--	--
#1	32845	--	--	--	--	--	--
#2	33019	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 12:11:29
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4937	.49998	.49924	.50202	.47346	.51057	.49392
SDev	.0154	.00192	.00246	.00178	.00251	.00306	.00184
%RSD	.61819	.38423	.49239	.35385	.53052	.59916	.37228
#1	2.5046	.49862	.50098	.50327	.47523	.51273	.49522
#2	2.4828	.50134	.49750	.50076	.47168	.50841	.49262

♀

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.022	.47269	.47060	.49009	2.4673	.46706	.47645
SDev	.048	.00243	.00232	.00243	.0073	.00226	.00402
%RSD	.39603	.51375	.49409	.49651	.29576	.48463	.84486
#1	12.056	.47441	.47224	.49181	2.4724	.46866	.47930
#2	11.989	.47097	.46895	.48837	2.4621	.46546	.47360

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49125	4.6828	.47807	.50399	.50233	12.079	.94871
SDev	.00053	.0179	.00231	.00057	.00307	.062	.00941
%RSD	.10792	.38117	.48342	.11415	.61109	.50988	.99163
#1	.49087	4.6954	.47971	.50439	.50450	12.123	.95536
#2	.49162	4.6702	.47644	.50358	.50016	12.036	.94206

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24826	12.594	12.292	.24949	.51438	.47997	.49351
SDev	.00111	.120	.056	.00068	.00051	.00254	.00192
%RSD	.44814	.95448	.45763	.27216	.09872	.52978	.38890
#1	.24905	12.679	12.331	.24997	.51474	.48176	.49487
#2	.24748	12.509	12.252	.24901	.51403	.47817	.49216

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48545	.50638	.43370	.49783	.44521	.51433
SDev	.00260	.00171	.00241	.00483	.00135	.00147
%RSD	.53470	.33738	.55501	.97111	.30278	.28560

#1	.48728	.50759	.43540	.50124	.44616	.51329
#2	.48361	.50517	.43199	.49441	.44425	.51537

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33376	--	--	--	--	--	--
SDev	73.53911	--	--	--	--	--	--
%RSD	.2203353	--	--	--	--	--	--
#1	33324	--	--	--	--	--	--
#2	33428	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 12:15:20
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06867	.00016	.00118	.00011	-.00097	.00255	-.00007
SDev	.00145	.00022	.00097	.00004	.00004	.00084	.00011

%RSD	2.1137	135.18	82.700	34.662	4.0134	32.930	148.12
#1	.06765	.00001	.00049	.00008	-.00100	.00315	-.00015
#2	.06970	.00032	.00187	.00014	-.00094	.00196	.00000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00270	.00003	-.00014	-.00219	-.00344	-.00041	.00182
SDev	.00229	.00019	.00019	.00025	.00014	.00002	.00062
%RSD	84.832	576.61	131.68	11.352	3.9206	4.1748	33.993
#1	.00108	-.00010	-.00027	-.00202	-.00335	-.00042	.00226
#2	.00432	.00017	-.00001	-.00237	-.00354	-.00040	.00138

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00135	-.03387	.00008	.00188	-.00024	-.24355	-.00351
SDev	.00091	.00480	.00002	.00139	.00018	.01150	.00144
%RSD	67.468	14.177	23.516	74.319	74.146	4.7230	41.003
#1	.00199	-.03726	.00006	.00286	-.00037	-.25168	-.00453
#2	.00070	-.03047	.00009	.00089	-.00012	-.23541	-.00249

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00022	-.08365	.01875	.00010	.00283	-.00094	.00018
SDev	.00002	.04231	.00336	.00010	.00377	.00015	.00016
%RSD	10.397	50.581	17.938	101.96	133.06	15.844	89.380
#1	-.00023	-.11356	.01637	.00003	.00549	-.00104	.00007
#2	-.00020	-.05373	.02113	.00016	.00017	-.00083	.00029

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00021	.00284	.00131	.00082	.00161

SDev	.00011	.00014	.00213	.00199	.00215	.00029
%RSD	45.741	67.891	75.153	152.37	260.82	18.016
#1	.00016	-.00031	.00133	.00272	.00234	.00181
#2	.00031	-.00011	.00435	-.00010	-.00069	.00140

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33880	--	--	--	--	--	--
SDev	4.949748	--	--	--	--	--	--
%RSD	.0146099	--	--	--	--	--	--
#1	33876	--	--	--	--	--	--
#2	33883	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-6-a Operator: DCL
Run Time: 10/25/12 12:19:10
Comment: TRACE 61E

♀

Analysis Report 10/25/12 12:22:58 PM page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15842	.00024	.00528	.02957	-.00116	.43815	.00007
SDev	.00010	.00162	.00029	.00008	.00000	.00007	.00001
%RSD	.06525	661.53	5.5425	.26558	.36274	.01551	11.015
#1	.15835	.00139	.00507	.02952	-.00116	.43820	.00007
#2	.15849	-.00090	.00548	.02963	-.00116	.43810	.00006

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.176	.00578	.00002	.00078	.20111	.04002	.00171
SDev	.108	.00017	.00003	.00019	.00600	.00013	.00054
%RSD	.16294	2.9485	109.59	24.611	2.9859	.33365	31.468
#1	66.100	.00590	.00001	.00091	.19687	.03992	.00209
#2	66.253	.00566	.00004	.00064	.20536	.04011	.00133

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00755	45.834	.00896	.00465	.00030	8.7288	10.728
SDev	.00151	.050	.00003	.00021	.00020	.0346	.014
%RSD	19.979	.10918	.28255	4.4622	66.097	.39682	.13169
#1	.00648	45.798	.00898	.00480	.00016	8.7043	10.718
#2	.00861	45.869	.00894	.00450	.00044	8.7533	10.738

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	244.57	184.36	1.3589	.00221	-.00044	.00128
SDev	.00021	.05	.29	.0036	.00124	.00147	.00007
%RSD	172.99	.01916	.15508	.26185	55.821	330.90	5.5775
#1	-.00003	244.60	184.16	1.3563	.00309	.00059	.00133
#2	.00027	244.53	184.57	1.3614	.00134	-.00148	.00123

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01189	-.00030	.00303	.00104	.00935	.00665
SDev	.00011	.00004	.00137	.00012	.00020	.00216
%RSD	.93392	14.327	45.179	11.554	2.1104	32.550
#1	.01197	-.00033	.00400	.00113	.00921	.00512
#2	.01181	-.00027	.00206	.00096	.00949	.00817

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32821	--	--	--	--	--	--
SDev	43.84062	--	--	--	--	--	--
%RSD	.1335749	--	--	--	--	--	--
#1	32852	--	--	--	--	--	--
#2	32790	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-7-a Operator: DCL
Run Time: 10/25/12 12:23:01
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08674	.00052	.00522	.08953	-.00109	.19289	.00011
SDev	.00105	.00194	.00182	.00037	.00003	.00169	.00012
%RSD	1.2164	376.19	34.820	.41244	2.8363	.87459	104.37
#1	.08599	.00189	.00393	.08980	-.00111	.19408	.00020
#2	.08749	-.00086	.00650	.08927	-.00107	.19170	.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	54.943	.00136	-.00058	-.00186	.08165	.04330	.00062
SDev	.331	.00001	.00018	.00008	.01398	.00029	.00112
%RSD	.60183	.86446	32.125	4.3355	17.117	.66857	179.37
#1	55.177	.00135	-.00044	-.00192	.09153	.04350	.00142
#2	54.709	.00137	-.00071	-.00180	.07177	.04309	-.00017

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	26.638	.00040	.00459	.00125	4.4762	18.996
SDev	.00259	.146	.00004	.00122	.00014	.0482	.103
%RSD	325.19	.54946	9.3057	26.643	11.079	1.0779	.54443
#1	.00263	26.742	.00043	.00545	.00115	4.5104	19.069
#2	-.00103	26.535	.00037	.00372	.00134	4.4421	18.923

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	50.240	46.047	1.9477	.00003	.00105	-.00006
SDev	.00059	.528	.312	.0080	.00159	.00138	.00003
%RSD	327.01	1.0513	.67842	.40938	5983.9	131.34	42.398
#1	.00024	50.614	46.268	1.9533	.00115	.00203	-.00004
#2	-.00060	49.867	45.826	1.9421	-.00110	.00007	-.00008

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01147	.00010	.00204	-.00008	-.00258	.00248
SDev	.00017	.00015	.00069	.00202	.00016	.00396
%RSD	1.4537	158.14	33.626	2439.8	6.0857	159.53
#1	.01159	.00020	.00155	.00135	-.00269	.00529
#2	.01135	-.00001	.00252	-.00151	-.00247	-.00032

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33286	--	--	--	--	--	--

Analysis Report 10/25/12 12:26:49 PM page 16

SDev	95.45942	--	--	--	--	--	--
%RSD	.2867812	--	--	--	--	--	--
#1	33219	--	--	--	--	--	--
#2	33354	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-8-a Operator: DCL
Run Time: 10/25/12 12:26:52
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17472	.00075	.00496	.03074	-.00120	.44482	.00007
SDev	.00093	.00063	.00014	.00004	.00001	.00015	.00005
%RSD	.53293	85.002	2.7512	.13596	.89325	.03376	70.919
#1	.17406	.00030	.00505	.03071	-.00121	.44471	.00003
#2	.17538	.00119	.00486	.03077	-.00119	.44492	.00010

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	68.905	.00587	-.00023	.00085	.21305	.04169	.00184
SDev	.146	.00022	.00005	.00021	.00516	.00005	.00020
%RSD	.21198	3.6784	23.271	25.055	2.4199	.11765	10.681
#1	69.008	.00602	-.00020	.00100	.21670	.04173	.00198
#2	68.802	.00572	-.00027	.00070	.20941	.04166	.00170

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00564	47.259	.01419	.00448	.00026	9.0505	11.062
SDev	.00239	.103	.00006	.00008	.00035	.0205	.015
%RSD	42.332	.21770	.45178	1.6872	133.81	.22683	.13642
#1	.00396	47.331	.01423	.00442	.00051	9.0650	11.073
#2	.00733	47.186	.01414	.00453	.00001	9.0360	11.052

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	251.73	189.59	1.4019	-.00315	.00119	.00212
SDev	.00026	.20	.38	.0021	.00010	.00162	.00055
%RSD	319.74	.08106	.20179	.14985	3.0443	136.33	26.044

#1	-.00026	251.88	189.86	1.4034	-.00308	.00004	.00251
#2	.00010	251.59	189.32	1.4004	-.00322	.00233	.00173

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01202	.00201	.00255	.00149	.00163	.00765
SDev	.00007	.00002	.00082	.00011	.00418	.00149
%RSD	.57555	1.0996	32.026	7.5809	256.33	19.519
#1	.01207	.00203	.00312	.00141	-.00133	.00660
#2	.01197	.00200	.00197	.00157	.00459	.00871

♀

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32590	--	--	--	--	--	--
SDev	19.79899	--	--	--	--	--	--
%RSD	.0607517	--	--	--	--	--	--
#1	32576	--	--	--	--	--	--
#2	32604	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-9-a Operator: DCL
Run Time: 10/25/12 12:30:42
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12932	.00061	.00835	1.2640	-.00120	1.0641	-.00004
SDev	.00235	.00067	.00072	.0063	.00002	.0068	.00010
%RSD	1.8185	109.74	8.6181	.49473	1.7585	.63712	239.81
#1	.12766	.00109	.00784	1.2595	-.00119	1.0593	-.00011
#2	.13098	.00014	.00886	1.2684	-.00122	1.0689	.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	112.89	-.00015	.00455	-.00058	.27127	.04931	.00179
SDev	.52	.00019	.00021	.00061	.00557	.00025	.00060
%RSD	.46401	133.19	4.6976	104.75	2.0530	.50672	33.493
#1	112.52	-.00001	.00440	-.00102	.26733	.04914	.00221
#2	113.26	-.00028	.00470	-.00015	.27521	.04949	.00137

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00162	102.72	.05008	.00354	.14219	3.2049	30.766
SDev	.00170	.48	.00026	.00072	.00193	.0466	.133
%RSD	104.99	.46399	.51494	20.392	1.3569	1.4532	.43214
#1	.00283	102.38	.04990	.00303	.14082	3.1720	30.672
#2	.00042	103.06	.05027	.00405	.14355	3.2378	30.860

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	73.566	66.808	2.3931	-.00051	.00071	.00176
SDev	.00025	.385	.330	.0102	.00159	.00021	.00012

%RSD	178.99	.52322	.49359	.42655	311.94	29.140	6.7599
#1	-.00032	73.293	66.575	2.3859	.00061	.00086	.00185
#2	.00004	73.838	67.041	2.4004	-.00163	.00057	.00168
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00276	.00062	.00301	.00118	.00070	.00209	
SDev	.00021	.00001	.00130	.00025	.00722	.00105	
%RSD	7.5485	2.1903	43.143	21.186	1032.9	50.375	♀

#1	.00262	.00061	.00393	.00136	.00580	.00134	
#2	.00291	.00063	.00209	.00100	-.00440	.00283	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32792	--	--	--	--	--	--
SDev	191.6259	--	--	--	--	--	--
%RSD	.5843590	--	--	--	--	--	--
#1	32928	--	--	--	--	--	--
#2	32657	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-10-a Operator: DCL
Run Time: 10/25/12 12:34:33
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09650	.00140	.07680	1.4285	-.00123	.56297	-.00003
SDev	.00045	.00240	.00153	.0012	.00001	.00119	.00004
%RSD	.46337	171.39	1.9912	.08547	.76618	.21078	103.13
#1	.09618	.00310	.07571	1.4294	-.00124	.56381	-.00001
#2	.09682	-.00030	.07788	1.4276	-.00122	.56213	-.00006
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	174.69	-.00026	-.00069	-.00112	1.0336	.03828	.00131
SDev	.51	.00016	.00022	.00031	.0101	.00015	.00064
%RSD	.29191	62.139	32.382	27.707	.97331	.38013	48.776
#1	175.05	-.00015	-.00085	-.00090	1.0407	.03838	.00176
#2	174.32	-.00037	-.00053	-.00133	1.0265	.03818	.00086
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00200	69.671	.51254	.00111	.03289	6.6662	18.540
SDev	.00234	.202	.00105	.00089	.00001	.0507	.037
%RSD	117.08	.28978	.20583	79.841	.01544	.76018	.20216
#1	.00366	69.814	.51328	.00049	.03288	6.7020	18.567
#2	.00034	69.528	.51179	.00174	.03289	6.6304	18.514
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00038	226.07	174.96	2.2766	-.00033	.00064	-.00086

SDev	.00023	.69	.70	.0020	.00218	.00195	.00007
%RSD	60.756	.30677	.39797	.08800	667.53	306.51	7.5812
#1	-.00055	226.56	175.46	2.2780	-.00187	.00201	-.00082
#2	-.00022	225.58	174.47	2.2752	.00121	-.00074	-.00091
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	♀

Analysis Report 10/25/12 12:38:21 PM page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00080	-.00002	.00142	.00125	.00143	.00229	
SDev	.00018	.00011	.00021	.00085	.00949	.00123	
%RSD	22.540	476.34	14.831	68.073	663.73	53.657	
#1	.00093	-.00010	.00157	.00185	.00814	.00142	
#2	.00067	.00005	.00127	.00065	-.00528	.00316	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32834	--	--	--	--	--	--
SDev	118.0868	--	--	--	--	--	--
%RSD	.3596425	--	--	--	--	--	--
#1	32751	--	--	--	--	--	--
#2	32918	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-11-a Operator: DCL
Run Time: 10/25/12 12:38:24
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24802	.00013	.00436	.03142	-.00126	.41290	-.00020
SDev	.00173	.00295	.00082	.00029	.00006	.00387	.00003
%RSD	.69723	2234.4	18.712	.92532	4.9958	.93784	15.573
#1	.24680	-.00196	.00378	.03121	-.00121	.41016	-.00017
#2	.24925	.00222	.00494	.03162	-.00130	.41564	-.00022

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	68.773	.00604	-.00012	.00076	.29599	.04057	.00108
SDev	.478	.00005	.00003	.00001	.00055	.00032	.00035
%RSD	.69521	.73751	26.021	.87550	.18476	.79584	32.392
#1	68.434	.00601	-.00010	.00077	.29637	.04034	.00083
#2	69.111	.00607	-.00014	.00076	.29560	.04080	.00133

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00292	46.994	.01266	.00373	.00062	8.7346	10.767
SDev	.00087	.315	.00006	.00044	.00007	.0654	.083
%RSD	29.817	.67017	.45208	11.862	11.239	.74881	.76624
#1	.00353	46.771	.01262	.00404	.00067	8.6884	10.709
#2	.00230	47.216	.01270	.00342	.00057	8.7809	10.826

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	-.00036	229.47	175.23	1.3977	-.00035	-.00047	.00270
SDev	.00047	1.19	.86	.0120	.00107	.00059	.00053
%RSD	132.65	.51810	.49130	.85745	308.91	127.78	19.607

♀

#1	-.00069	228.62	174.62	1.3892	-.00110	-.00089	.00307
#2	-.00002	230.31	175.84	1.4062	.00041	-.00004	.00232

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01199	.00081	.00298	.00013	.00585	.00145
SDev	.00007	.00023	.00006	.00056	.00148	.00056
%RSD	.60732	28.406	2.0802	414.92	25.288	38.964
#1	.01204	.00065	.00302	-.00026	.00690	.00185
#2	.01194	.00098	.00294	.00053	.00480	.00105

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33270	--	--	--	--	--	--
SDev	154.1493	--	--	--	--	--	--
%RSD	.4633281	--	--	--	--	--	--
#1	33379	--	--	--	--	--	--
#2	33161	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-12-a Operator: DCL
Run Time: 10/25/12 12:42:15
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28561	.00060	.00583	.03354	-.00134	.41477	.00008
SDev	.00060	.00013	.00339	.00003	.00003	.00182	.00001
%RSD	.20842	21.087	58.129	.08495	2.0439	.43984	17.033
#1	.28603	.00051	.00343	.03356	-.00136	.41606	.00007
#2	.28519	.00069	.00822	.03352	-.00132	.41348	.00009

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	73.585	.00625	-.00005	-.00009	.34050	.04339	.00101
SDev	.176	.00027	.00030	.00012	.00331	.00016	.00042
%RSD	.23869	4.2939	555.05	131.51	.97132	.36815	41.433
#1	73.709	.00606	-.00027	-.00017	.33816	.04351	.00130
#2	73.461	.00644	.00016	-.00001	.34284	.04328	.00071

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00615	49.725	.02203	.00398	.00090	9.1989	11.118
SDev	.00155	.150	.00003	.00024	.00073	.0195	.058
%RSD	25.293	.30097	.11357	5.9932	81.609	.21174	.51859
#1	.00505	49.830	.02204	.00415	.00142	9.2127	11.159
#2	.00725	49.619	.02201	.00381	.00038	9.1851	11.077

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 10/25/12 12:46:02 PM page 21

Avge	-.00014	235.95	179.43	1.4805	-.00113	.00024	.00382
SDev	.00030	1.29	.59	.0058	.00142	.00036	.00018
%RSD	211.63	.54750	.32854	.39279	125.65	151.31	4.7802
#1	-.00035	236.86	179.84	1.4846	-.00013	-.00002	.00369
#2	.00007	235.03	179.01	1.4764	-.00214	.00049	.00395

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01141	.00082	.00143	.00080	.00861	.00491
SDev	.00005	.00006	.00171	.00023	.00444	.00011
%RSD	.40836	7.7235	119.73	28.626	51.586	2.2368
#1	.01138	.00077	.00264	.00064	.00547	.00483
#2	.01145	.00086	.00022	.00096	.01176	.00499

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32781	--	--	--	--	--	--
SDev	39.59798	--	--	--	--	--	--
%RSD	.1207955	--	--	--	--	--	--
#1	32753	--	--	--	--	--	--
#2	32809	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-12-b du Operator: DCL
Run Time: 10/25/12 12:46:06
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26560	-.00125	.00593	.03298	-.00133	.41253	.00003
SDev	.00080	.00137	.00179	.00009	.00003	.00317	.00013
%RSD	.30176	109.57	30.108	.28652	2.1334	.76922	389.82
#1	.26616	-.00028	.00467	.03305	-.00135	.41477	.00013
#2	.26503	-.00222	.00720	.03291	-.00131	.41028	-.00006

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	73.096	.00619	.00010	-.00031	.32305	.04300	.00165
SDev	.411	.00007	.00030	.00006	.02652	.00024	.00137
%RSD	.56251	1.1512	294.33	19.929	8.2097	.56027	83.035
#1	73.386	.00614	.00031	-.00027	.34181	.04317	.00261
#2	72.805	.00624	-.00011	-.00035	.30430	.04283	.00068

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00485	49.351	.02172	.00357	.00090	9.1352	10.998
SDev	.00036	.282	.00018	.00030	.00010	.0650	.072
%RSD	7.3313	.57160	.84234	8.3000	10.602	.71136	.65882
#1	.00510	49.551	.02185	.00336	.00083	9.1812	11.049

Analysis Report 10/25/12 12:49:53 PM page 22

#2	.00460	49.152	.02159	.00378	.00096	9.0893	10.946

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	234.09	178.53	1.4709	.00046	.00006	.00367
SDev	.00004	1.37	1.03	.0078	.00044	.00038	.00041
%RSD	16.852	.58362	.57672	.52752	96.120	578.89	11.064
#1	-.00023	235.06	179.26	1.4764	.00015	.00033	.00396
#2	-.00029	233.13	177.80	1.4654	.00077	-.00020	.00339

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01150	.00042	.00305	.00094	.00355	.00549
SDev	.00036	.00006	.00262	.00074	.00420	.00157
%RSD	3.0926	14.718	85.908	78.387	118.18	28.518
#1	.01175	.00046	.00490	.00147	.00652	.00439
#2	.01125	.00037	.00120	.00042	.00058	.00660

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32789	--	--	--	--	--	--
SDev	135.7645	--	--	--	--	--	--
%RSD	.4140550	--	--	--	--	--	--
#1	32693	--	--	--	--	--	--
#2	32885	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-d-12-a ms Operator: DCL
Run Time: 10/25/12 12:49:57
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.656	1.0701	1.0611	1.0827	.48177	1.5019	.50178
SDev	.064	.0005	.0069	.0052	.00234	.0082	.00206
%RSD	.59909	.04970	.65315	.47724	.48682	.54842	.41014
#1	10.701	1.0697	1.0660	1.0864	.48343	1.5077	.50323
#2	10.611	1.0705	1.0562	1.0791	.48011	1.4961	.50032

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	81.086	.96512	.96144	1.0262	10.564	.61588	.97304
SDev	.420	.00505	.00599	.0052	.062	.00272	.00684
%RSD	.51835	.52377	.62261	.50313	.58493	.44207	.70313
#1	81.383	.96870	.96567	1.0298	10.608	.61781	.97787
#2	80.788	.96155	.95721	1.0225	10.521	.61396	.96820

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0272	58.489	1.0021	1.0631	1.0292	22.503	12.619

SDev	.0101	.318	.0055	.0004	.0063	.083	.079
%RSD	.98152	.54383	.54722	.03805	.61008	.37034	.62719

#1	1.0344	58.714	1.0060	1.0633	1.0336	22.562	12.675
#2	1.0201	58.264	.99824	1.0628	1.0247	22.444	12.563

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52801	255.92	193.82	1.9962	1.0723	.99482	1.0356
SDev	.00296	1.60	.84	.0091	.0055	.00431	.0033
%RSD	.55994	.62347	.43507	.45788	.51033	.43299	.32159

#1	.53010	257.05	194.42	2.0026	1.0762	.99787	1.0380
#2	.52592	254.79	193.22	1.9897	1.0685	.99178	1.0333

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0087	1.0522	.86716	1.0260	.92001	1.0809
SDev	.0050	.0062	.00390	.0083	.00901	.0106
%RSD	.49129	.58811	.45008	.81006	.97923	.98250

#1	1.0123	1.0565	.86992	1.0319	.92638	1.0884
#2	1.0052	1.0478	.86440	1.0201	.91364	1.0734

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32448	--	--	--	--	--	--
SDev	173.2412	--	--	--	--	--	--
%RSD	.5338957	--	--	--	--	--	--

#1	32326	--	--	--	--	--	--
#2	32571	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-d-12-b msd Operator: DCL
Run Time: 10/25/12 12:53:48
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.514	1.0779	1.0665	1.0855	.48703	1.4922	.50784
SDev	.006	.0007	.0022	.0010	.00028	.0017	.00006
%RSD	.05654	.06266	.20938	.08998	.05847	.11080	.01111

#1	10.518	1.0775	1.0649	1.0848	.48723	1.4910	.50788
#2	10.510	1.0784	1.0680	1.0862	.48683	1.4933	.50780

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	82.077	.97367	.96936	1.0269	10.530	.61539	.98492
SDev	.028	.00036	.00058	.0002	.000	.00071	.00062
%RSD	.03428	.03734	.05953	.01651	.00165	.11539	.06264

#1	82.097	.97393	.96976	1.0267	10.530	.61489	.98536

#2	82.057	.97342	.96895	1.0270	10.529	.61590	.98448

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0373	59.037	1.0047	1.0782	1.0362	22.299	12.177

SDev	.0056	.034	.0008	.0030	.0013	.009	.008
%RSD	.53796	.05787	.08064	.28130	.12900	.03913	.06672
#1	1.0412	59.061	1.0053	1.0761	1.0371	22.293	12.183
#2	1.0333	59.013	1.0041	1.0803	1.0352	22.305	12.171

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53085	243.59	185.98	2.0104	1.0898	1.0071	1.0413
SDev	.00033	.11	.01	.0040	.0017	.0021	.0021
%RSD	.06204	.04454	.00778	.19668	.15574	.20973	.20524
#1	.53108	243.66	185.97	2.0076	1.0886	1.0056	1.0428
#2	.53061	243.51	185.99	2.0132	1.0910	1.0086	1.0398

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0153	1.0603	.87838	1.0382	.92742	1.0922
SDev	.0009	.0001	.00331	.0007	.01240	.0022
%RSD	.08636	.01043	.37658	.07016	1.3368	.19881
#1	1.0159	1.0602	.88072	1.0377	.93618	1.0938
#2	1.0147	1.0603	.87604	1.0387	.91865	1.0907

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32730	--	--	--	--	--	--
SDev	41.71930	--	--	--	--	--	--
%RSD	.1274670	--	--	--	--	--	--
#1	32700	--	--	--	--	--	--
#2	32759	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 12:57:40
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4462	.50057	.49404	.49858	.46007	.50819	.49083
SDev	.0217	.00778	.00191	.00337	.00340	.00392	.00308
%RSD	.88553	1.5545	.38680	.67576	.73786	.77154	.62644
#1	2.4615	.50607	.49539	.50096	.46247	.51096	.49300
#2	2.4309	.49507	.49269	.49620	.45767	.50542	.48865

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	11.844	.46158	.45890	.47700	2.4248	.46602	.46935
SDev	.074	.00365	.00308	.00406	.0110	.00413	.00479
%RSD	.62565	.79142	.67031	.85029	.45463	.88679	1.0203
#1	11.896	.46416	.46107	.47986	2.4326	.46894	.47274
#2	11.791	.45899	.45672	.47413	2.4170	.46310	.46597

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47778	4.5840	.46880	.50013	.49926	12.088	.92495
SDev	.00371	.0260	.00333	.00381	.00230	.091	.00792
%RSD	.77740	.56702	.71044	.76216	.46001	.75367	.85590
#1	.47516	4.6024	.47116	.50283	.50088	12.152	.93055
#2	.48041	4.5657	.46645	.49744	.49763	12.023	.91935

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24424	12.392	12.298	.24845	.51870	.47097	.48588
SDev	.00194	.116	.097	.00121	.00044	.00401	.00346
%RSD	.79263	.93470	.79269	.48646	.08459	.85099	.71114
#1	.24561	12.474	12.367	.24931	.51839	.47381	.48832
#2	.24287	12.310	12.229	.24760	.51901	.46814	.48344

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47579	.50304	.41561	.49622	.42740	.50303
SDev	.00380	.00211	.00398	.00519	.00283	.00416
%RSD	.79876	.42001	.95744	1.0466	.66177	.82634
#1	.47848	.50454	.41842	.49990	.42540	.50009
#2	.47311	.50155	.41279	.49255	.42940	.50597

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33468	--	--	--	--	--	--
SDev	11.31371	--	--	--	--	--	--
%RSD	.0338046	--	--	--	--	--	--
#1	33460	--	--	--	--	--	--
#2	33476	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 13:01:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08873	.00282	.00206	.00017	-.00122	.00422	.00002
SDev	.00475	.00040	.00018	.00002	.00002	.00046	.00009
%RSD	5.3568	14.112	8.6427	11.489	1.5976	10.913	368.30

♀

#1	.08537	.00254	.00193	.00018	-.00120	.00455	-.00004
#2	.09209	.00310	.00218	.00015	-.00123	.00390	.00008

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00132	.00003	-.00007	-.00293	.01304	-.00041	.00156
SDev	.00244	.00013	.00013	.00036	.00677	.00007	.00048
%RSD	184.48	366.67	171.02	12.267	51.871	16.463	30.607
#1	-.00305	-.00006	-.00017	-.00268	.00826	-.00046	.00122
#2	.00040	.00013	.00002	-.00319	.01783	-.00037	.00190

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00262	-.03872	.00016	.00197	.00011	-.25543	-.00526
SDev	.00103	.00858	.00002	.00046	.00035	.02844	.00033
%RSD	39.478	22.161	10.706	23.474	315.97	11.134	6.2441
#1	.00189	-.04479	.00017	.00229	.00035	-.27554	-.00549
#2	.00335	-.03265	.00015	.00164	-.00014	-.23532	-.00503

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00021	-.03132	.03650	.00012	.00439	-.00087	.00041
SDev	.00018	.14307	.00741	.00004	.00294	.00025	.00024
%RSD	85.869	456.80	20.294	35.029	66.901	28.842	57.304
#1	.00008	-.13249	.03126	.00009	.00646	-.00069	.00058
#2	.00033	.06985	.04174	.00015	.00231	-.00105	.00025

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	-.00021	.00254	.00107	.00362	.00212
SDev	.00006	.00001	.00007	.00068	.00061	.00124
%RSD	7.7171	3.1340	2.8396	63.526	16.946	58.756
#1	.00084	-.00021	.00249	.00059	.00319	.00124
#2	.00075	-.00022	.00259	.00155	.00405	.00299

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33487	--	--	--	--	--	--
SDev	239.0021	--	--	--	--	--	--
%RSD	.7137160	--	--	--	--	--	--
#1	33656	--	--	--	--	--	--
#2	33318	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-a-13-a Operator: DCL
Run Time: 10/25/12 13:05:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.27087	.00018	.00446	.03237	-.00139	.40081	.00009
SDev	.00236	.00009	.00182	.00006	.00004	.00196	.00005
%RSD	.87205	49.475	40.802	.19238	2.6492	.48944	51.888
#1	.26920	.00024	.00317	.03242	-.00142	.40220	.00006
#2	.27254	.00012	.00575	.03233	-.00137	.39943	.00013

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	74.940	.00641	.00012	-.00039	.32343	.04373	.00152
SDev	.300	.00017	.00038	.00021	.01945	.00011	.00076
%RSD	.40006	2.7279	314.86	53.032	6.0134	.25934	50.394

#1	75.152	.00629	.00039	-.00054	.33718	.04381	.00206
#2	74.728	.00653	-.00015	-.00025	.30968	.04365	.00098
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00706	50.501	.01474	.00429	.00152	9.3377	11.021
SDev	.00120	.244	.00006	.00033	.00030	.0377	.054
%RSD	16.937	.48289	.43491	7.6076	19.928	.40343	.49336
#1	.00621	50.674	.01478	.00406	.00131	9.3643	11.059
#2	.00790	50.329	.01469	.00452	.00174	9.3110	10.982
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	224.75	173.25	1.5100	.00460	.00158	.00380
SDev	.00044	.70	.46	.0043	.00213	.00060	.00066
%RSD	76.093	.31212	.26723	.28188	46.372	38.176	17.256
#1	.00089	225.25	173.58	1.5131	.00610	.00200	.00427
#2	.00027	224.26	172.93	1.5070	.00309	.00115	.00334
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01107	.00091	.00297	.00079	.00618	.00750	
SDev	.00013	.00011	.00018	.00123	.00468	.00055	
%RSD	1.1779	12.034	5.9291	156.48	75.653	7.2828	
#1	.01098	.00099	.00285	.00166	.00288	.00788	
#2	.01116	.00084	.00309	-.00008	.00949	.00711	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32764	--	--	--	--	--	--
SDev	181.7264	--	--	--	--	--	--
%RSD	.5546613	--	--	--	--	--	--
#1	32635	--	--	--	--	--	--
#2	32892	--	--	--	--	--	--

♀

10/25/12 01:13:00 PM page 28

Method: 20076010 Sample Name: 600-63251-e-14-a Operator: DCL
Run Time: 10/25/12 13:09:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28078	.00050	.00641	.03432	-.00137	.39996	-.00011
SDev	.00101	.00212	.00077	.00008	.00003	.00146	.00015
%RSD	.35800	423.16	12.060	.24145	2.5439	.36592	139.78
#1	.28149	-.00100	.00587	.03426	-.00135	.39892	-.00000
#2	.28007	.00200	.00696	.03438	-.00140	.40099	-.00021
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	75.939	.00682	-.00019	.00002	.33924	.04378	.00098
SDev	.127	.00022	.00011	.00019	.00769	.00008	.00045
%RSD	.16776	3.2054	58.192	914.10	2.2666	.17720	46.376

#1	75.849	.00667	-.00011	-.00011	.34468	.04372	.00066
#2	76.029	.00698	-.00027	.00015	.33380	.04383	.00130

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00580	50.636	.02532	.00431	.00084	9.2863	10.944
SDev	.00036	.072	.00003	.00027	.00018	.0007	.013
%RSD	6.2260	.14255	.10919	6.2079	21.248	.00769	.11588
#1	.00554	50.585	.02530	.00450	.00097	9.2868	10.935
#2	.00605	50.687	.02534	.00412	.00071	9.2858	10.953

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00034	225.08	173.35	1.5086	-.00056	.00120	.00292
SDev	.00030	.29	.10	.0043	.00021	.00009	.00011
%RSD	89.017	.12932	.05859	.28184	38.395	7.6259	3.7653
#1	-.00013	224.87	173.28	1.5056	-.00041	.00114	.00284
#2	-.00055	225.29	173.43	1.5116	-.00071	.00127	.00300

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01142	.00916	.00263	.00015	.00753	.00493
SDev	.00018	.00014	.00025	.00080	.00246	.00177
%RSD	1.5540	1.5476	9.4564	541.47	32.614	35.874
#1	.01154	.00906	.00281	-.00042	.00927	.00368
#2	.01129	.00926	.00246	.00072	.00579	.00618

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32776	--	--	--	--	--	--
SDev	36.06245	--	--	--	--	--	--
%RSD	.1100287	--	--	--	--	--	--

#1	32801	--	--	--	--	--	--
#2	32750	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-15-a Operator: DCL
Run Time: 10/25/12 13:13:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20332	.00026	.00566	.03033	-.00140	.42604	-.00004
SDev	.00094	.00208	.00230	.00032	.00006	.00450	.00001
%RSD	.46267	797.63	40.606	1.0448	3.9816	1.0559	14.086
#1	.20399	.00173	.00728	.03010	-.00136	.42285	-.00004
#2	.20266	-.00121	.00403	.03055	-.00144	.42922	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.683	.00564	-.00038	-.00014	.27352	.04041	.00166

SDev	.695	.00023	.00028	.00031	.00327	.00057	.00040
%RSD	1.0417	4.0751	73.978	221.25	1.1956	1.4019	24.359
#1	66.191	.00548	-.00018	-.00036	.27583	.04001	.00138
#2	67.174	.00581	-.00058	.00008	.27121	.04081	.00195

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00436	45.399	.01426	.00351	.00034	8.7484	10.594
SDev	.00043	.503	.00020	.00038	.00031	.1363	.115
%RSD	9.8123	1.1077	1.4167	10.905	92.214	1.5576	1.0858
#1	.00406	45.043	.01412	.00324	.00012	8.6520	10.512
#2	.00466	45.755	.01440	.00378	.00056	8.8447	10.675

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	238.36	181.73	1.3750	.00271	.00069	.00175
SDev	.00044	2.68	2.04	.0171	.00199	.00327	.00003
%RSD	974.62	1.1231	1.1240	1.2431	73.530	472.82	1.5399
#1	.00027	236.47	180.29	1.3629	.00412	-.00162	.00173
#2	-.00036	240.26	183.18	1.3871	.00130	.00301	.00177

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01171	.00034	.00131	.00183	.00407	.00450
SDev	.00023	.00001	.00005	.00063	.00519	.00196
%RSD	1.9729	1.4321	3.9797	34.509	127.44	43.439
#1	.01154	.00035	.00135	.00139	.00040	.00588
#2	.01187	.00034	.00128	.00228	.00775	.00312

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/25/12 01:16:51 PM page 30

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32822	--	--	--	--	--	--
SDev	294.1564	--	--	--	--	--	--
%RSD	.8962172	--	--	--	--	--	--
#1	33030	--	--	--	--	--	--
#2	32614	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-16-a Operator: DCL
Run Time: 10/25/12 13:16:54
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17076	.00183	.00209	.02942	-.00144	.41977	-.00013
SDev	.00099	.00017	.00035	.00016	.00006	.00235	.00009
%RSD	.57816	9.4257	16.885	.54720	3.8386	.55997	67.342
#1	.17146	.00196	.00184	.02953	-.00148	.42143	-.00019
#2	.17006	.00171	.00234	.02931	-.00141	.41811	-.00007

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	66.529	.00535	.00033	-.00068	.20761	.04044	.00120
SDev	.368	.00048	.00036	.00051	.01161	.00033	.00021
%RSD	.55312	9.0431	108.57	75.125	5.5913	.81519	17.411
#1	66.790	.00501	.00008	-.00104	.19940	.04067	.00105
#2	66.269	.00569	.00058	-.00032	.21582	.04020	.00134

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00656	45.314	.01155	.00398	.00043	8.7401	10.402
SDev	.00084	.318	.00006	.00015	.00027	.0657	.082
%RSD	12.800	.70087	.50957	3.7216	62.966	.75143	.78714
#1	.00596	45.539	.01159	.00387	.00024	8.7865	10.460
#2	.00715	45.090	.01151	.00408	.00062	8.6936	10.344

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	235.19	180.23	1.3769	.00167	.00089	.00116
SDev	.00040	1.54	.89	.0074	.00343	.00100	.00028
%RSD	263.59	.65484	.49299	.53977	204.77	112.85	23.736
#1	-.00013	236.28	180.86	1.3821	-.00075	.00159	.00097
#2	.00043	234.10	179.60	1.3716	.00410	.00018	.00136

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01139	.00002	.00034	.00162	.00647	.00660
SDev	.00018	.00005	.00173	.00118	.00267	.00260
%RSD	1.5522	321.64	513.89	72.372	41.350	39.310
#1	.01127	-.00002	.00156	.00079	.00836	.00477

#2	.01152	.00005	-.00089	.00246	.00458	.00844

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32719	--	--	--	--	--	--
SDev	219.2031	--	--	--	--	--	--
%RSD	.6699566	--	--	--	--	--	--
#1	32564	--	--	--	--	--	--
#2	32874	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-17-a Operator: DCL
Run Time: 10/25/12 13:20:45
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.90124	.00029	.02868	.12112	-.00166	.63811	-.00000
SDev	.00522	.00145	.00025	.00073	.00003	.00295	.00008
%RSD	.57898	508.89	.85613	.60414	1.5949	.46153	11672.
#1	.89755	-.00074	.02886	.12061	-.00164	.63603	.00005
#2	.90493	.00131	.02851	.12164	-.00168	.64020	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	220.30	.00038	.00156	-.00048	.68296	.12194	.00121
SDev	.87	.00017	.00059	.00033	.00773	.00107	.00063
%RSD	.39428	44.394	38.022	67.784	1.1324	.87936	51.856
#1	219.69	.00049	.00198	-.00025	.68843	.12119	.00165
#2	220.92	.00026	.00114	-.00071	.67749	.12270	.00076

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00379	97.326	.92517	.00481	.03317	16.572	13.451
SDev	.00209	.425	.00403	.00070	.00094	.124	.078
%RSD	55.032	.43634	.43539	14.467	2.8444	.75104	.58295
#1	.00527	97.025	.92232	.00432	.03251	16.484	13.396
#2	.00232	97.626	.92802	.00530	.03384	16.660	13.507

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	800.63	474.74	2.7509	-.00084	-.00034	.02203
SDev	.00057	6.49	1.16	.0181	.00390	.00035	.00163
%RSD	2607.8	.81073	.24454	.65635	463.94	100.75	7.3889
#1	.00043	796.04	473.92	2.7381	-.00360	-.00059	.02088
#2	-.00038	805.22	475.56	2.7636	.00192	-.00010	.02318

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01186	.00071	.00215	.00074	.00503	.00318

SDev	.00016	.00007	.00046	.00071	.00542	.00042
%RSD	1.3591	9.8006	21.384	96.331	107.81	13.265
#1	.01175	.00067	.00247	.00124	.00886	.00347
#2	.01197	.00076	.00182	.00023	.00119	.00288

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31671	--	--	--	--	--	--
SDev	69.29646	--	--	--	--	--	--
%RSD	.2188010	--	--	--	--	--	--
#1	31720	--	--	--	--	--	--
#2	31622	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-18-a Operator: DCL
Run Time: 10/25/12 13:24:36
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38146	.00211	.01035	.59494	-.00146	.21099	.00016
SDev	.00239	.00023	.00097	.00178	.00002	.00149	.00052
%RSD	.62733	10.745	9.3371	.29947	1.1352	.70750	334.31
#1	.38315	.00195	.01104	.59620	-.00145	.21204	.00053
#2	.37977	.00227	.00967	.59368	-.00147	.20993	-.00021

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.230	.00048	.00137	-.00122	.45441	.03678	.00145
SDev	.272	.00011	.00170	.00013	.08249	.00011	.00090
%RSD	.32339	23.408	124.43	10.501	18.153	.28687	61.934
#1	84.423	.00056	.00258	-.00113	.51274	.03685	.00209
#2	84.038	.00040	.00016	-.00131	.39608	.03670	.00082

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00087	77.167	.05488	.00451	.04689	3.2399	26.687
SDev	.00123	.295	.00003	.00065	.00158	.0087	.096
%RSD	141.09	.38240	.05849	14.475	3.3608	.26755	.36045
#1	.00175	77.376	.05486	.00497	.04801	3.2461	26.755
#2	.00000	76.959	.05490	.00405	.04578	3.2338	26.619

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	51.972	48.203	3.4460	.00288	.00430	.00661
SDev	.00256	.597	.088	.0103	.00111	.00383	.00111
%RSD	201.37	1.1496	.18251	.29994	38.550	89.223	16.782
#1	.00308	52.395	48.266	3.4533	.00367	.00701	.00739
#2	-.00054	51.550	48.141	3.4387	.00210	.00159	.00582

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00288	.00336	.00880	-.00222	.01106	-.00422
SDev	.00013	.00010	.01306	.00518	.00938	.00284
%RSD	4.4630	3.0005	148.49	233.53	84.858	67.390
#1	.00297	.00329	.01803	-.00588	.01769	-.00623
#2	.00279	.00343	-.00044	.00145	.00442	-.00221

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33135	--	--	--	--	--	--
SDev	15.55635	--	--	--	--	--	--
%RSD	.0469484	--	--	--	--	--	--
#1	33146	--	--	--	--	--	--
#2	33124	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-19-a Operator: DCL
Run Time: 10/25/12 13:28:27
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13853	.00210	.00463	.02832	-.00158	.41358	.00002
SDev	.00347	.00072	.00142	.00024	.00005	.00151	.00004
%RSD	2.5037	34.100	30.628	.85899	3.1960	.36482	191.66
#1	.14098	.00260	.00363	.02849	-.00161	.41465	.00005

#2	.13608	.00159	.00564	.02815	-.00154	.41251	-.00001

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	67.693	.00590	.00008	-.00138	.15936	.04131	.00087
SDev	.679	.00033	.00071	.00040	.01204	.00045	.00075
%RSD	1.0030	5.6188	893.95	28.998	7.5569	1.0939	85.829
#1	68.173	.00614	.00058	-.00110	.16787	.04163	.00034
#2	67.213	.00567	-.00042	-.00167	.15084	.04099	.00140

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00413	46.186	.00469	.00455	.00031	8.9569	10.476
SDev	.00232	.479	.00008	.00030	.00034	.1247	.102
%RSD	56.201	1.0367	1.6895	6.5188	111.26	1.3921	.97045
#1	.00577	46.525	.00475	.00476	.00055	9.0451	10.548
#2	.00249	45.848	.00464	.00434	.00007	8.8687	10.404

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	232.38	179.08	1.4164	-.00134	.00139	.00032
SDev	.00051	2.18	1.59	.0126	.00133	.00017	.00024

%RSD	217.62	.93847	.88786	.89121	98.716	12.546	75.537
#1	.00059	233.92	180.21	1.4253	-.00228	.00152	.00050
#2	-.00013	230.83	177.96	1.4074	-.00041	.00127	.00015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01084	-.00045	.00133	.00064	.00220	.00510
SDev	.00060	.00003	.00159	.00033	.00325	.00186
%RSD	5.5341	7.6214	119.36	51.055	147.84	36.452
#1	.01126	-.00047	.00021	.00041	.00449	.00641
#2	.01041	-.00042	.00245	.00087	-.00010	.00378

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32540	--	--	--	--	--	--
SDev	289.9138	--	--	--	--	--	--
%RSD	.8909459	--	--	--	--	--	--
#1	32335	--	--	--	--	--	--
#2	32745	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63251-e-20-a Operator: DCL
Run Time: 10/25/12 13:32:18
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19027	.00232	.00420	.02865	-.00163	.41215	-.00002
SDev	.00029	.00386	.00194	.00004	.00001	.00030	.00001
%RSD	.15144	166.46	46.235	.13058	.49470	.07386	57.118

#1	.19048	.00504	.00283	.02868	-.00163	.41237	-.00001
#2	.19007	-.00041	.00558	.02863	-.00164	.41194	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.671	.00560	-.00012	-.00022	.20065	.03909	.00101
SDev	.342	.00005	.00066	.00034	.02735	.00014	.00030
%RSD	.53772	.96857	550.24	156.45	13.631	.34740	29.389
#1	63.913	.00564	.00035	.00002	.21999	.03919	.00122
#2	63.429	.00556	-.00059	-.00046	.18131	.03900	.00080

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00454	43.602	.00567	.00369	-.00039	8.5267	10.254
SDev	.00220	.257	.00010	.00005	.00067	.0718	.036
%RSD	48.397	.58953	1.6904	1.4446	170.19	.84263	.35327
#1	.00299	43.783	.00573	.00366	.00008	8.5775	10.280
#2	.00610	43.420	.00560	.00373	-.00087	8.4758	10.229

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	228.13	176.44	1.3379	.00193	-.00059	.00170
SDev	.00119	.83	.89	.0022	.00255	.00096	.00022
%RSD	1506.6	.36447	.50372	.16523	131.83	162.58	12.952
#1	.00076	228.71	177.07	1.3394	.00373	.00009	.00185
#2	-.00092	227.54	175.81	1.3363	.00013	-.00127	.00154

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01123	.00007	.00061	.00121	.00628	.00367
SDev	.00070	.00006	.00149	.00030	.00278	.00191
%RSD	6.2601	83.520	243.05	24.661	44.328	51.872
#1	.01172	.00003	.00167	.00100	.00431	.00233
#2	.01073	.00011	-.00044	.00143	.00824	.00502

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32416	--	--	--	--	--	--
SDev	214.2534	--	--	--	--	--	--
%RSD	.6609392	--	--	--	--	--	--
#1	32265	--	--	--	--	--	--
#2	32568	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-63251-e-4-a Operator: DCL
Run Time: 10/25/12 13:36:09
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.5844	1.0217	1.0145	1.5116	.45423	1.1912	.48938
SDev	.0045	.0014	.0019	.0027	.00008	.0031	.00078
%RSD	.04645	.13733	.18632	.17679	.01772	.25726	.16023

#1	9.5813	1.0207	1.0132	1.5097	.45417	1.1890	.48883
#2	9.5876	1.0227	1.0158	1.5135	.45429	1.1934	.48994
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	70.253	.91055	.89619	.94683	9.8105	.54462	.93430
SDev	.038	.00028	.00037	.00102	.0059	.00001	.00488
%RSD	.05450	.03082	.04164	.10800	.06038	.00155	.52268
#1	70.226	.91075	.89592	.94755	9.8063	.54462	.93085
#2	70.280	.91035	.89645	.94610	9.8147	.54461	.93775
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98023	64.521	.93087	1.0130	.98690	13.764	22.788
SDev	.00217	.039	.00060	.0040	.00237	.009	.024
%RSD	.22152	.05993	.06474	.39260	.24053	.06823	.10604

#1	.97869	64.494	.93045	1.0102	.98522	13.770	22.771
#2	.98176	64.548	.93130	1.0158	.98858	13.757	22.805
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49918	19.509	19.960	2.9421	1.0392	.93205	.97755
SDev	.00015	.156	.007	.0030	.0086	.00038	.00131
%RSD	.03075	.79728	.03660	.10328	.83082	.04080	.13412
#1	.49928	19.619	19.955	2.9399	1.0331	.93178	.97663
#2	.49907	19.399	19.966	2.9442	1.0453	.93232	.97848
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.94956	1.0059	.80502	.99894	.86021	1.0402	
SDev	.00056	.0032	.00260	.00602	.00125	.0026	
%RSD	.05901	.31540	.32338	.60299	.14506	.25312	
#1	.94916	1.0037	.80317	.99468	.85933	1.0384	
#2	.94995	1.0082	.80686	1.0032	.86109	1.0421	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33243	--	--	--	--	--	--
SDev	98.99495	--	--	--	--	--	--
%RSD	.2977919	--	--	--	--	--	--
#1	33313	--	--	--	--	--	--
#2	33173	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-63251-e-4-a@5 Operator: DCL
Run Time: 10/25/12 13:40:00
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11120	-.00068	.00488	.09861	-.00146	.03230	-.00007
SDev	.00441	.00131	.00226	.00064	.00006	.00049	.00016

%RSD	3.9703	192.56	46.246	.65019	4.3340	1.5152	247.24
#1	.10808	.00025	.00648	.09816	-.00150	.03265	-.00018
#2	.11432	-.00161	.00329	.09907	-.00141	.03196	.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.524	.00009	.00000	-.00354	.03916	.00705	.00057
SDev	.050	.00008	.00034	.00010	.00214	.00019	.00028
%RSD	.39897	87.062	6966.1	2.9385	5.4672	2.6718	50.048
#1	12.488	.00014	-.00024	-.00361	.03764	.00692	.00077
#2	12.559	.00003	.00025	-.00347	.04067	.00719	.00037

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00210	11.056	-.00012	.00259	-.00128	.28663	4.3252
SDev	.00123	.044	.00022	.00086	.00001	.03732	.0100
%RSD	58.808	.39418	185.18	33.160	.52487	13.022	.23195
#1	.00297	11.026	-.00027	.00319	-.00127	.26024	4.3181
#2	.00123	11.087	.00004	.00198	-.00128	.31303	4.3323

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00003	1.6044	1.7336	.46606	.00611	.00029	.00006
SDev	.00020	.0527	.0157	.00181	.00051	.00159	.00007
%RSD	688.43	3.2819	.90653	.38860	8.3710	545.49	111.76
#1	-.00017	1.5672	1.7225	.46478	.00647	.00142	.00001
#2	.00011	1.6416	1.7447	.46734	.00575	-.00083	.00011

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00114	.00105	.00018	.00076	-.00009	.00320
SDev	.00006	.00026	.00028	.00057	.00117	.00127
%RSD	5.0364	25.037	158.06	74.393	1234.1	39.697
#1	.00110	.00086	-.00002	.00116	.00073	.00409
#2	.00118	.00124	.00038	.00036	-.00092	.00230

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33650	--	--	--	--	--	--
SDev	188.7975	--	--	--	--	--	--
%RSD	.5610708	--	--	--	--	--	--
#1	33783	--	--	--	--	--	--
#2	33516	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 13:43:51
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	2.4446	.50168	.49229	.50404	.44833	.50704	.49645
SDev	.0090	.00173	.00151	.00131	.00242	.00198	.00165
%RSD	.36943	.34460	.30568	.25920	.54034	.39134	.33234
#1	2.4510	.50290	.49336	.50497	.45004	.50845	.49762
#2	2.4382	.50045	.49123	.50312	.44661	.50564	.49528

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.748	.45270	.45064	.46835	2.4197	.47183	.46871
SDev	.040	.00256	.00212	.00220	.0048	.00122	.00312
%RSD	.34375	.56626	.46970	.46893	.19670	.25966	.66499

#1	11.776	.45451	.45213	.46991	2.4231	.47270	.47092
#2	11.719	.45089	.44914	.46680	2.4164	.47096	.46651

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47962	4.5051	.46390	.49498	.50330	12.213	.91758
SDev	.00002	.0138	.00222	.00258	.00119	.024	.00448
%RSD	.00453	.30632	.47886	.52164	.23716	.19759	.48831
#1	.47964	4.5149	.46548	.49681	.50414	12.230	.92075
#2	.47961	4.4954	.46233	.49316	.50245	12.196	.91441

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24308	12.331	12.422	.25167	.52255	.46534	.48330
SDev	.00064	.033	.023	.00027	.00389	.00207	.00196
%RSD	.26107	.26476	.18340	.10824	.74467	.44457	.40456
#1	.24353	12.354	12.438	.25186	.52530	.46680	.48468
#2	.24263	12.307	12.406	.25148	.51979	.46387	.48192

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46896	.50472	.40075	.50269	.41812	.51043
SDev	.00269	.00122	.00143	.00396	.00009	.00001
%RSD	.57339	.24219	.35582	.78823	.02035	.00188
#1	.47086	.50558	.40176	.50550	.41818	.51042
#2	.46705	.50385	.39974	.49989	.41806	.51044

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33390	--	--	--	--	--	--
SDev	37.47666	--	--	--	--	--	--
%RSD	.1122375	--	--	--	--	--	--
#1	33364	--	--	--	--	--	--
#2	33417	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 13:47:42
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11204	.00025	.00308	.00014	-.00147	.00333	-.00004
SDev	.00434	.00100	.00137	.00001	.00003	.00047	.00006
%RSD	3.8742	395.49	44.448	6.0843	2.0105	14.232	156.85
#1	.11511	.00096	.00212	.00015	-.00149	.00367	-.00008
#2	.10897	-.00045	.00405	.00014	-.00145	.00300	.00000

♀

Analysis Report 10/25/12 01:51:30 PM page 39

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01223	.00003	-.00015	-.00362	.00996	-.00031	.00103
SDev	.00309	.00029	.00003	.00037	.01095	.00003	.00016
%RSD	25.237	829.31	17.345	10.327	109.96	9.8223	16.084
#1	-.01441	.00024	-.00017	-.00336	.01770	-.00033	.00114
#2	-.01005	-.00017	-.00013	-.00389	.00222	-.00029	.00091

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00165	-.02627	.00005	.00193	-.00099	-.21003	-.00681
SDev	.00136	.00368	.00002	.00011	.00019	.00072	.00189
%RSD	82.159	14.004	34.907	5.8714	18.750	.34155	27.807
#1	.00069	-.02887	.00007	.00201	-.00113	-.21053	-.00547
#2	.00261	-.02367	.00004	.00185	-.00086	-.20952	-.00815

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	-.07732	.02252	.00020	.00270	-.00075	.00017
SDev	.00025	.08573	.00081	.00009	.00130	.00041	.00010
%RSD	777.58	110.88	3.5921	42.741	48.272	54.929	57.444
#1	-.00014	-.01670	.02309	.00014	.00178	-.00046	.00024
#2	.00021	-.13794	.02195	.00026	.00362	-.00105	.00010

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00067	-.00115	-.00128	.00218	-.00179	.00337
SDev	.00024	.00001	.00095	.00072	.00454	.00023
%RSD	36.754	1.0672	74.205	33.141	253.01	6.8963
#1	.00084	-.00115	-.00195	.00269	-.00500	.00354
#2	.00049	-.00114	-.00061	.00167	.00141	.00321

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33475	--	--	--	--	--	--
SDev	19.79899	--	--	--	--	--	--
%RSD	.0591456	--	--	--	--	--	--
#1	33489	--	--	--	--	--	--
#2	33461	--	--	--	--	--	--

♀

Analysis Report 10/25/12 03:10:01 PM page 1

Method: 20076010 Sample Name: mb 600-91890/1-a Operator: DCL

Run Time: 10/25/12 15:06:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15310	.00093	.00148	.00124	-.00199	.00030	-.00008
SDev	.00001	.00158	.00125	.00007	.00001	.00031	.00009
%RSD	.00918	170.87	84.696	5.3787	.51236	103.90	107.91
#1	.15311	-.00019	.00059	.00119	-.00200	.00008	-.00002
#2	.15309	.00204	.00236	.00129	-.00198	.00052	-.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00435	.00006	-.00008	-.00201	.01852	-.00060	.00227
SDev	.00027	.00023	.00027	.00001	.00068	.00000	.00025
%RSD	6.2601	372.06	360.44	.55208	3.7015	.78676	11.168
#1	-.00454	-.00010	.00012	-.00202	.01803	-.00059	.00209
#2	-.00416	.00022	-.00027	-.00200	.01900	-.00060	.00245

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00128	-.04755	.00059	-.00016	-.00102	-.32288	-.00980
SDev	.00027	.00247	.00006	.00025	.00021	.00050	.00025
%RSD	21.238	5.1978	9.3465	156.45	20.175	.15609	2.5634
#1	.00109	-.04581	.00055	.00002	-.00117	-.32324	-.00997
#2	.00147	-.04930	.00063	-.00034	-.00087	-.32252	-.00962

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	-.06563	-.00992	.00011	.00140	.00017	-.00008
SDev	.00007	.03100	.00157	.00003	.00009	.00136	.00011
%RSD	16.785	47.236	15.788	26.742	6.2441	809.93	137.88
#1	.00037	-.04371	-.00881	.00009	.00146	.00113	-.00015
#2	.00046	-.08756	-.01103	.00013	.00134	-.00080	-.00000

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	.00185	.00423	.00128	.00017	.00183
SDev	.00012	.00032	.00127	.00026	.00425	.00253
%RSD	40.361	17.077	29.980	19.866	2455.3	138.24
#1	.00022	.00207	.00334	.00146	.00318	.00004
#2	.00039	.00162	.00513	.00110	-.00283	.00362

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32686	--	--	--	--	--	--
SDev	71.41779	--	--	--	--	--	--
%RSD	.2184999	--	--	--	--	--	--

#1	32635	--	--	--	--	--	--
#2	32736	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-91890/2-a Operator: DCL
Run Time: 10/25/12 15:10:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.008	1.0728	1.0709	1.1043	.46503	1.0727	.54505
SDev	.013	.0037	.0002	.0011	.00103	.0029	.00090
%RSD	.12509	.34594	.01522	.09823	.22253	.27364	.16441
#1	10.017	1.0754	1.0710	1.1051	.46576	1.0748	.54568
#2	9.9992	1.0701	1.0708	1.1035	.46430	1.0706	.54441

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.062	.95213	.95181	.98751	10.438	.51612	1.0159
SDev	.015	.00118	.00148	.00280	.007	.00001	.0023
%RSD	.15128	.12366	.15600	.28319	.06354	.00134	.22773
#1	10.073	.95296	.95286	.98949	10.443	.51612	1.0175
#2	10.051	.95130	.95076	.98553	10.433	.51613	1.0143

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0405	9.5912	.98696	1.0497	1.1048	10.903	.95929
SDev	.0022	.0116	.00201	.0024	.0034	.019	.00438
%RSD	.20890	.12131	.20338	.23003	.31232	.17300	.45606
#1	1.0390	9.5995	.98838	1.0479	1.1072	10.916	.96239
#2	1.0420	9.5830	.98554	1.0514	1.1023	10.890	.95620

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52200	10.154	10.966	.55338	1.1423	.95757	1.0146
SDev	.00019	.004	.001	.00068	.0071	.00207	.0020
%RSD	.03585	.04297	.01092	.12299	.62345	.21575	.19302
#1	.52213	10.157	10.965	.55386	1.1373	.95904	1.0160
#2	.52187	10.151	10.967	.55290	1.1474	.95611	1.0132

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98960	1.0910	.83014	1.1088	.86810	1.1267
SDev	.00145	.0017	.00410	.0014	.00104	.0038
%RSD	.14648	.15452	.49412	.12801	.11989	.33548
#1	.99062	1.0922	.83304	1.1098	.86883	1.1240
#2	.98857	1.0898	.82724	1.1078	.86736	1.1294

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/25/12 03:13:52 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32756	--	--	--	--	--	--
SDev	78.48885	--	--	--	--	--	--
%RSD	.2396131	--	--	--	--	--	--

#1	32701	--	--	--	--	--	--
#2	32812	--	--	--	--	--	--

Method: 20076010 Sample Name: lb 600-91868/1-b Operator: DCL
Run Time: 10/25/12 15:13:55
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15018	.00056	.00264	.00028	-.00195	.00219	-.00004
SDev	.00099	.00096	.00092	.00003	.00001	.00106	.00003
%RSD	.66219	171.44	34.680	11.153	.30031	48.398	65.134
#1	.15089	-.00012	.00199	.00031	-.00195	.00293	-.00006
#2	.14948	.00124	.00329	.00026	-.00194	.00144	-.00002

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.70192	-.00006	.00018	-.00382	.01304	-.00031	.00147
SDev	.00104	.00027	.00009	.00003	.00582	.00004	.00043
%RSD	.14862	421.88	46.626	.75917	44.651	12.393	29.245
#1	.70266	.00013	.00012	-.00380	.00892	-.00028	.00178
#2	.70119	-.00026	.00024	-.00384	.01716	-.00034	.00117

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00292	-.03540	.00011	.00376	-.00137	-.24361	-.01183
SDev	.00120	.00097	.00002	.00153	.00021	.02073	.00193
%RSD	41.055	2.7481	18.419	40.669	15.373	8.5111	16.269
#1	.00377	-.03471	.00012	.00485	-.00152	-.22895	-.01047
#2	.00207	-.03608	.00009	.00268	-.00122	-.25827	-.01319

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	160.65	131.75	.00045	.00321	.00211	.00012
SDev	.00028	.09	.07	.00005	.00353	.00148	.00019
%RSD	91.791	.05740	.05553	12.073	110.08	70.092	161.86
#1	.00011	160.71	131.80	.00049	.00570	.00316	.00026
#2	.00050	160.58	131.69	.00041	.00071	.00106	-.00002

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	-.00021	.00207	.00117	.00311	.00283
SDev	.00033	.00028	.00230	.00050	.00180	.00090
%RSD	58.209	133.86	110.84	42.724	57.881	31.781
#1	.00079	-.00001	.00369	.00082	.00439	.00346

#2	.00033	-.00041	.00045	.00153	.00184	.00219

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33028	--	--	--	--	--	--
SDev	197.9899	--	--	--	--	--	--
%RSD	.5994608	--	--	--	--	--	--

#1	32888	--	--	--	--	--	--
#2	33168	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-2-e Operator: DCL
Run Time: 10/25/12 15:17:45
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19889	.00255	.00392	.07399	-.00202	.01586	.00241
SDev	.00123	.00082	.00032	.00055	.00000	.00026	.00014
%RSD	.61957	32.195	8.2775	.74350	.05833	1.6171	5.8959
#1	.19802	.00313	.00369	.07360	-.00202	.01568	.00231
#2	.19976	.00197	.00415	.07438	-.00202	.01604	.00251

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	42.529	.00114	.00099	.31377	.05168	.00167	.00198
SDev	.259	.00001	.00014	.00209	.00470	.00006	.00111
%RSD	.61015	1.1007	13.861	.66731	9.1051	3.9119	56.177
#1	42.346	.00115	.00109	.31229	.05500	.00162	.00277
#2	42.713	.00113	.00090	.31525	.04835	.00171	.00119

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00151	1.1904	.05649	.00280	.00912	.64812	3.4624
SDev	.00299	.0096	.00032	.00054	.00021	.02352	.0222
%RSD	197.96	.80691	.57367	19.355	2.2667	3.6289	.64163
#1	-.00060	1.1836	.05626	.00319	.00926	.63149	3.4467
#2	.00362	1.1972	.05672	.00242	.00897	.66475	3.4781

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	172.75	141.23	.22073	.00050	.00230	-.00015
SDev	.00007	1.35	1.09	.00147	.00122	.00022	.00016
%RSD	22.123	.78077	.77458	.66513	244.67	9.4228	101.93
#1	.00027	171.80	140.46	.21970	-.00036	.00215	-.00004
#2	.00036	173.70	142.00	.22177	.00136	.00245	-.00026

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.14264	.00195	.00200	.00294	.00079

SDev	.00013	.00043	.00006	.00170	.00537	.00180
%RSD	16.666	.30402	3.2521	85.244	182.29	227.12
#1	.00087	.14234	.00191	.00320	-.00085	-.00048
#2	.00069	.14295	.00200	.00079	.00674	.00206

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32388	--	--	--	--	--	--
SDev	98.28784	--	--	--	--	--	--

%RSD	.3034653	--	--	--	--	--	--
#1	32458	--	--	--	--	--	--
#2	32319	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-2-f ms Operator: DCL
Run Time: 10/25/12 15:21:37
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.107	1.0973	1.0747	1.1622	.46098	1.1185	.53621
SDev	.093	.0128	.0104	.0125	.00539	.0100	.00578
%RSD	.92185	1.1622	.96888	1.0765	1.1688	.89579	1.0781
#1	10.172	1.1063	1.0821	1.1710	.46479	1.1256	.54029
#2	10.041	1.0883	1.0673	1.1533	.45717	1.1114	.53212

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.203	.93697	.93747	1.3050	10.262	.58213	1.0092
SDev	.585	.00997	.01133	.0144	.126	.00605	.0097
%RSD	1.1203	1.0638	1.2091	1.1047	1.2290	1.0394	.95627
#1	52.616	.94401	.94549	1.3152	10.351	.58641	1.0160
#2	51.789	.92992	.92946	1.2948	10.172	.57786	1.0024

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0505	10.619	1.0233	1.0715	1.0929	14.210	4.5732
SDev	.0062	.122	.0120	.0075	.0151	.186	.0481
%RSD	.59396	1.1529	1.1713	.69583	1.3833	1.3094	1.0507
#1	1.0549	10.705	1.0318	1.0768	1.1036	14.341	4.6072
#2	1.0461	10.532	1.0148	1.0662	1.0823	14.078	4.5393

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52244	187.78	153.52	.76920	1.1404	.97850	1.0253
SDev	.00644	1.67	1.46	.00840	.0111	.00804	.0112
%RSD	1.2334	.88994	.94805	1.0916	.97671	.82143	1.0880
#1	.52700	188.96	154.55	.77513	1.1483	.98419	1.0332
#2	.51789	186.60	152.49	.76326	1.1325	.97282	1.0174

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97906	1.2296	.82433	1.1016	.87405	1.1387
SDev	.01164	.0136	.01072	.0091	.00608	.0063
%RSD	1.1892	1.1037	1.3006	.82746	.69533	.55505
#1	.98729	1.2392	.83192	1.1081	.87834	1.1432
#2	.97083	1.2200	.81675	1.0952	.86975	1.1343

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32093	--	--	--	--	--	--

SDev	271.5290	--	--	--	--	--	--
%RSD	.8460693	--	--	--	--	--	--
#1	31901	--	--	--	--	--	--
#2	32285	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-2-g msd Operator: DCL
Run Time: 10/25/12 15:25:28
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.000	1.0838	1.0591	1.1544	.45297	1.1052	.52653
SDev	.034	.0039	.0014	.0039	.00217	.0035	.00213
%RSD	.34076	.35631	.13215	.33489	.48010	.31978	.40447
#1	10.024	1.0865	1.0601	1.1571	.45451	1.1077	.52803
#2	9.9760	1.0810	1.0581	1.1517	.45143	1.1027	.52502

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.220	.92071	.92065	1.2897	10.077	.57847	.99041
SDev	.189	.00350	.00443	.0053	.052	.00197	.00228
%RSD	.36833	.38070	.48133	.41265	.51666	.34085	.23007
#1	51.353	.92318	.92378	1.2934	10.114	.57987	.99202
#2	51.086	.91823	.91752	1.2859	10.040	.57708	.98880

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0436	10.401	1.0059	1.0587	1.0707	14.042	4.5153
SDev	.0031	.044	.0042	.0001	.0004	.059	.0144
%RSD	.29950	.42561	.42231	.00656	.03614	.41791	.31794
#1	1.0458	10.433	1.0089	1.0587	1.0704	14.084	4.5254
#2	1.0414	10.370	1.0029	1.0586	1.0710	14.001	4.5051

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51708	186.02	152.31	.76192	1.1250	.95932	1.0131
SDev	.00174	.63	.50	.00273	.0037	.00734	.0032

%RSD	.33577	.33685	.32681	.35797	.33244	.76475	.32016
#1	.51831	186.47	152.66	.76385	1.1224	.96450	1.0154
#2	.51586	185.58	151.95	.75999	1.1277	.95413	1.0108

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96423	1.2119	.80821	1.0815	.86371	1.1335
SDev	.00387	.0044	.00315	.0018	.00326	.0031
%RSD	.40133	.36139	.39004	.17029	.37692	.27000
#1	.96697	1.2150	.81044	1.0828	.86601	1.1357
#2	.96150	1.2088	.80598	1.0802	.86141	1.1313

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	32095	--	--	--	--	--	--
SDev	55.15433	--	--	--	--	--	--
%RSD	.1718471	--	--	--	--	--	--
#1	32056	--	--	--	--	--	--
#2	32134	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-3-e Operator: DCL
Run Time: 10/25/12 15:29:19
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19097	.00081	.00318	.07881	-.00216	.01526	.00031
SDev	.00185	.00031	.00008	.00005	.00001	.00050	.00004
%RSD	.96727	38.790	2.5771	.06838	.50968	3.2498	13.369
#1	.18966	.00103	.00324	.07885	-.00216	.01561	.00028
#2	.19228	.00059	.00312	.07877	-.00217	.01491	.00034

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	44.372	.00010	.00152	.18732	.13670	.00197	.00229
SDev	.105	.00012	.00006	.00090	.01059	.00001	.00001
%RSD	.23759	116.84	3.7558	.48337	7.7444	.63639	.50092
#1	44.447	.00002	.00156	.18796	.14419	.00198	.00230
#2	44.298	.00018	.00148	.18668	.12922	.00196	.00228

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00522	1.2018	.08328	.00548	.01365	1.3241	4.7960
SDev	.00029	.0019	.00022	.00240	.00110	.0121	.0098
%RSD	5.5434	.15645	.26915	43.822	8.0255	.91184	.20479
#1	.00542	1.2031	.08344	.00718	.01288	1.3326	4.8030
#2	.00501	1.2005	.08312	.00378	.01443	1.3156	4.7891

♀

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	170.49	139.76	.34437	.00517	.00143	-.00022
SDev	.00019	.16	.15	.00047	.00248	.00007	.00008
%RSD	140.45	.09289	.10973	.13706	48.075	4.8790	38.079
#1	.00026	170.60	139.87	.34470	.00693	.00148	-.00016
#2	.00000	170.38	139.65	.34403	.00341	.00139	-.00028

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.03834	.00279	.00204	.00497	.00534
SDev	.00004	.00016	.00060	.00032	.00311	.00199
%RSD	12.786	.42050	21.402	15.500	62.635	37.287
#1	.00029	.03845	.00237	.00226	.00277	.00675
#2	.00034	.03822	.00321	.00181	.00717	.00393

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--

Wavlen	371.030	--	--	--	--	--	--
Avge	32337	--	--	--	--	--	--
SDev	72.12489	--	--	--	--	--	--
%RSD	.2230414	--	--	--	--	--	--
#1	32286	--	--	--	--	--	--
#2	32388	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-4-l Operator: DCL
Run Time: 10/25/12 15:33:10
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.13064	.00074	.00307	.00005	.00288	.00039	-.00005
SDev	.00117	.00035	.00041	.00001	.00001	.00035	.00008
%RSD	.89340	47.262	13.376	19.735	.19100	89.966	148.57
#1	-.12981	.00098	.00278	.00004	.00288	.00063	.00000
#2	-.13146	.00049	.00336	.00006	.00287	.00014	-.00010

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03804	.00022	.00022	-.00768	.01235	-.00420	.00087
SDev	.00073	.00003	.00042	.00003	.01550	.00007	.00009
%RSD	1.9078	12.498	195.83	.39641	125.50	1.6970	10.435
#1	-.03753	.00024	.00052	-.00770	.02332	-.00415	.00093
#2	-.03856	.00020	-.00008	-.00766	.00139	-.00425	.00081

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00196	-.36692	-.00004	-.00017	-.00110	-2.3553	-.07775
SDev	.00053	.00717	.00001	.00030	.00048	.0374	.00176
%RSD	27.312	1.9540	18.129	176.16	43.720	1.5899	2.2680

#1	.00234	-.36185	-.00004	.00004	-.00076	-2.3289	-.07651
#2	.00158	-.37199	-.00003	-.00038	-.00145	-2.3818	-.07900

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	.26884	-.16897	.00012	.00437	-.00009	.00038
SDev	.00050	.12254	.00505	.00000	.00110	.00115	.00004
%RSD	81.021	45.581	2.9910	2.9007	25.238	1273.9	11.023
#1	.00098	.35549	-.16540	.00013	.00515	.00072	.00041
#2	.00027	.18219	-.17254	.00012	.00359	-.00090	.00035

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	-.00392	.00292	-.00015	.00982	-.00197
SDev	.00005	.00008	.00346	.00159	.00337	.00088
%RSD	9.6022	2.1337	118.61	1039.0	34.294	44.683
#1	.00059	-.00386	.00536	-.00128	.01220	-.00260
#2	.00051	-.00398	.00047	.00097	.00744	-.00135

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	85920	--	--	--	--	--	--
SDev	649.8311	--	--	--	--	--	--
%RSD	.7563167	--	--	--	--	--	--
#1	85461	--	--	--	--	--	--
#2	86380	--	--	--	--	--	--

♀

Analysis Report 10/25/12 03:44:56 PM page 1

Method: 20076010 Sample Name: lb 600-91874/1-b Operator: DCL
Run Time: 10/25/12 15:41:08
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16640	.00087	.00111	.00017	-.00205	.00094	-.00010
SDev	.00526	.00131	.00208	.00005	.00002	.00052	.00008
%RSD	3.1624	151.32	187.28	27.098	.93169	55.210	77.983
#1	.16268	.00179	-.00036	.00014	-.00204	.00058	-.00016
#2	.17012	-.00006	.00259	.00020	-.00206	.00131	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02055	-.00020	-.00028	-.00490	.00582	-.00034	.00120
SDev	.00159	.00002	.00035	.00009	.00602	.00004	.00009
%RSD	7.7134	7.8746	123.98	1.7885	103.37	12.937	7.3771
#1	-.02167	-.00021	-.00053	-.00496	.00157	-.00037	.00126
#2	-.01943	-.00019	-.00004	-.00484	.01008	-.00031	.00113

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00409	-.03593	.00004	.00043	-.00183	-.25813	-.01232
SDev	.00200	.00313	.00008	.00020	.00008	.01795	.00149
%RSD	48.914	8.7128	177.36	45.699	4.4053	6.9527	12.058
#1	.00267	-.03814	-.00001	.00029	-.00177	-.27082	-.01337
#2	.00550	-.03372	.00010	.00057	-.00188	-.24544	-.01127

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	-.11217	.04275	.00008	.00064	.00231	-.00006
SDev	.00005	.07901	.00154	.00003	.00018	.00121	.00007
%RSD	81.952	70.438	3.5991	39.827	28.675	52.284	115.95
#1	-.00002	-.16804	.04167	.00005	.00051	.00146	-.00001
#2	-.00009	-.05630	.04384	.00010	.00077	.00317	-.00011

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	-.00045	.00266	.00046	.00245	.00491
SDev	.00006	.00023	.00185	.00106	.00213	.00193
%RSD	14.681	51.249	69.454	228.49	87.038	39.405
#1	.00040	-.00062	.00136	.00121	.00094	.00354
#2	.00049	-.00029	.00397	-.00028	.00395	.00627

IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32838	--	--	--	--	--	--
SDev	90.50967	--	--	--	--	--	--
%RSD	.2756248	--	--	--	--	--	--

#1	32902	--	--	--	--	--	--
#2	32774	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-1-e Operator: DCL
Run Time: 10/25/12 15:44:59
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24389	.00209	.00276	.07550	-.00207	.02866	.00042
SDev	.00023	.00036	.00094	.00070	.00000	.00047	.00008
%RSD	.09466	17.334	34.064	.92976	.03440	1.6302	18.998
#1	.24406	.00183	.00210	.07600	-.00207	.02833	.00036
#2	.24373	.00235	.00343	.07500	-.00207	.02899	.00048

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	162.63	.00072	.00135	.06047	.18422	.00665	.00151
SDev	1.25	.00020	.00014	.00056	.00649	.00005	.00043
%RSD	.76642	27.457	10.239	.93124	3.5257	.73236	28.613
#1	163.51	.00058	.00125	.06087	.17963	.00669	.00181
#2	161.75	.00085	.00145	.06008	.18881	.00662	.00120

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00119	4.4449	.20980	.00348	.01697	3.9066	11.119
SDev	.00049	.0299	.00153	.00015	.00006	.0317	.098
%RSD	41.675	.67159	.72973	4.3935	.37899	.81185	.88146
#1	.00154	4.4660	.21089	.00338	.01701	3.9290	11.188
#2	.00084	4.4238	.20872	.00359	.01692	3.8841	11.050

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	2.9204	2.9262	.28000	-.00306	.00222	-.00030
SDev	.00016	.0136	.0291	.00237	.00113	.00072	.00023
%RSD	953.97	.46451	.99554	.84669	36.797	32.611	74.435
#1	-.00013	2.9300	2.9468	.28167	-.00227	.00171	-.00047
#2	.00010	2.9108	2.9056	.27832	-.00386	.00273	-.00014

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00271	5.7554	.00318	.00067	.00506	-.00075
SDev	.00032	.0420	.00105	.00012	.00063	.00043
%RSD	11.601	.72889	32.929	18.395	12.477	56.633
#1	.00249	5.7851	.00392	.00076	.00551	-.00045
#2	.00293	5.7257	.00244	.00058	.00462	-.00105

```
 IntStd  1         2         3         4         5         6         7
 Mode    *Counts   NOTUSED   NOTUSED   NOTUSED   NOTUSED   NOTUSED   NOTUSED   ♀
Analysis Report                          10/25/12 03:48:47 PM          page 3


 Elem    Y         --        --        --        --        --        --
 Wavlen  371.030   --        --        --        --        --        --
 Avge    32306     --        --        --        --        --        --
 SDev    44.54773  --        --        --        --        --        --
 %RSD    .1378909  --        --        --        --        --        --

 #1      32275     --        --        --        --        --        --
 #2      32338     --        --        --        --        --        --
-------------------------------------------------------------------------------
Method: 20076010   Sample Name: CCV met1012ccv_00006   Operator: DCL
Run Time: 10/25/12 15:48:50
Comment: TRACE 61E
Mode: CONC   Corr. Factor: 1

 Elem    Al3082    Sb2068    As1890    Ba4934    Be3130    B_2496    Cd2265
 Units   ppm       ppm       ppm       ppm       ppm       ppm       ppm
 Avge    2.4534    .52038    .50647    .51875    .43407    .52282    .52212
 SDev     .0289    .00465    .00512    .00477    .00413    .00421    .00413
 %RSD    1.1765    .89332    1.0103    .92050    .95063    .80576    .79176

 #1      2.4738    .52366    .51009    .52213    .43699    .52580    .52505
 #2      2.4330    .51709    .50285    .51538    .43115    .51984    .51920

 Elem    Ca3179    Cr2677    Co2286    Cu3247    Fe2714    Li6707    Pb2203
 Units   ppm       ppm       ppm       ppm       ppm       ppm       ppm
 Avge    11.804    .44522    .44500    .45082    2.4671    .48923    .48503
 SDev      .092    .00421    .00416    .00520     .0254    .00403    .00235
 %RSD    .77771    .94515    .93545    1.1529    1.0315    .82416    .48433

 #1      11.869    .44819    .44795    .45450    2.4850    .49208    .48669
 #2      11.739    .44224    .44206    .44715    2.4491    .48637    .48337

 Elem    Se1960    Mg2790    Mn2576    Mo2020    Ni2316    K_7664    Si2881
 Units   ppm       ppm       ppm       ppm       ppm       ppm       ppm
 Avge    .49507    4.4953    .46307    .50318    .52193    12.824    .90260
 SDev    .00379     .0331    .00429    .00336    .00386      .104    .01032
 %RSD    .76579    .73671    .92725    .66728    .73895    .81304    1.1433

 #1      .49775    4.5187    .46611    .50555    .52466    12.898    .90990
 #2      .49239    4.4719    .46003    .50080    .51920    12.750    .89530

 Elem    Ag3280    Na3302    Na5889    Sr4215    Tl1908    Sn1899    Ti3349
 Units   ppm       ppm       ppm       ppm       ppm       ppm       ppm
 Avge    .24265    12.428    12.787    .26013    .55026    .46776    .48570
 SDev    .00253      .178      .108    .00220    .00022    .00581    .00466
 %RSD    1.0439    1.4338    .84630    .84587    .03917    1.2419    .96023

 #1      .24444    12.554    12.863    .26169    .55041    .47187    .48900
 #2      .24086    12.302    12.710    .25858    .55010    .46365    .48240

 Elem    V_2924    Zn2138    2203/1    2203/2    1960/1    1960/2
 Units   ppm       ppm       ppm       ppm       ppm       ppm
 Avge    .46381    .51964    .39238    .53135    .40565    .53983
 SDev    .00524    .00457    .00211    .00247    .00503    .00317
 %RSD    1.1309    .87991    .53668    .46500    1.2397    .58776

 #1      .46751    .52288    .39387    .53310    .40921    .54207   ♀
```

#2	.46010	.51641	.39089	.52961	.40210	.53759

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32252	--	--	--	--	--	--
SDev	112.4300	--	--	--	--	--	--
%RSD	.3485931	--	--	--	--	--	--
#1	32173	--	--	--	--	--	--
#2	32332	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 15:52:41
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17162	.00357	.00101	.00013	-.00205	.00211	-.00016
SDev	.00365	.00055	.00089	.00003	.00008	.00080	.00013
%RSD	2.1250	15.495	87.743	21.482	3.7312	38.143	80.677
#1	.16904	.00396	.00164	.00016	-.00199	.00268	-.00007
#2	.17420	.00318	.00038	.00011	-.00210	.00154	-.00024

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01559	.00027	-.00039	-.00495	.00364	-.00016	.00168
SDev	.00507	.00023	.00021	.00013	.01353	.00006	.00057
%RSD	32.507	82.711	53.907	2.5412	371.85	40.557	34.341
#1	-.01918	.00044	-.00024	-.00504	.01321	-.00020	.00127
#2	-.01201	.00011	-.00054	-.00486	-.00593	-.00011	.00208

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00247	-.02143	.00006	.00151	-.00128	-.15482	-.01157
SDev	.00045	.00674	.00006	.00026	.00044	.04417	.00227
%RSD	18.161	31.458	95.408	17.048	34.221	28.533	19.635
#1	.00279	-.02620	.00010	.00169	-.00097	-.18605	-.01318
#2	.00216	-.01666	.00002	.00133	-.00159	-.12358	-.00996

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	-.08804	.00110	.00019	.00089	.00078	-.00000
SDev	.00022	.13799	.00327	.00001	.00114	.00001	.00013
%RSD	116.86	156.74	296.58	3.5301	127.79	.66391	10715.
#1	-.00003	.00953	-.00121	.00019	.00170	.00078	.00009
#2	-.00035	-.18562	.00342	.00020	.00009	.00078	-.00009

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	-.00111	.00139	.00182	.00150	.00296

♀

SDev	.00000	.00023	.00279	.00053	.00103	.00016
%RSD	.48114	20.863	201.07	29.246	68.177	5.4442
#1	.00068	-.00127	-.00059	.00220	.00223	.00307
#2	.00068	-.00094	.00336	.00144	.00078	.00284

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32057	--	--	--	--	--	--
SDev	408.7077	--	--	--	--	--	--
%RSD	1.274941	--	--	--	--	--	--
#1	32346	--	--	--	--	--	--
#2	31768	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63280-a-1-d Operator: DCL
Run Time: 10/25/12 15:56:32
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21723	.00332	.00605	.08603	-.00220	.03639	.01159
SDev	.00014	.00077	.00121	.00020	.00002	.00067	.00005
%RSD	.06508	23.233	20.082	.22745	.69405	1.8300	.44380
#1	.21713	.00278	.00519	.08617	-.00219	.03592	.01155
#2	.21733	.00387	.00691	.08590	-.00221	.03686	.01162

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	65.997	.00035	.01366	-.00362	6.9733	.00086	.00225
SDev	.272	.00007	.00009	.00035	.0370	.00005	.00045
%RSD	.41226	19.231	.67088	9.5384	.53107	5.2833	19.953
#1	66.190	.00039	.01372	-.00338	6.9995	.00090	.00257
#2	65.805	.00030	.01359	-.00387	6.9472	.00083	.00193

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00368	3.1743	.88714	.00030	.01941	.40580	1.5812
SDev	.00220	.0161	.00357	.00032	.00013	.00717	.0097
%RSD	59.966	.50638	.40243	105.50	.68335	1.7677	.61197
#1	.00524	3.1857	.88966	.00008	.01931	.41087	1.5881
#2	.00212	3.1630	.88461	.00053	.01950	.40073	1.5744

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	3.7742	3.9505	.34760	-.00333	.00032	-.00047
SDev	.00005	.0549	.0135	.00103	.00062	.00278	.00005
%RSD	8.8856	1.4559	.34107	.29636	18.587	874.64	10.531
#1	-.00057	3.7353	3.9600	.34833	-.00289	.00228	-.00043
#2	-.00050	3.8131	3.9409	.34688	-.00377	-.00164	-.00050

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.00180	3.6724	.00443	.00116	.00316	.00393
SDev	.00006	.0153	.00268	.00067	.00488	.00087
%RSD	3.4297	.41615	60.515	57.602	154.38	22.018
#1	.00184	3.6832	.00632	.00069	.00662	.00455
#2	.00175	3.6616	.00253	.00163	-.00029	.00332

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32062	--	--	--	--	--	--
SDev	19.09188	--	--	--	--	--	--
%RSD	.0595458	--	--	--	--	--	--
#1	32049	--	--	--	--	--	--
#2	32076	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-63055-a-4-l Operator: DCL
Run Time: 10/25/12 16:00:22
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18708	.00024	.00265	.14178	-.00224	.01321	.00029
SDev	.00078	.00029	.00290	.00046	.00001	.00025	.00001
%RSD	.41904	120.99	109.51	.32071	.57913	1.9043	3.5400
#1	.18652	.00003	.00471	.14210	-.00225	.01339	.00028
#2	.18763	.00045	.00060	.14146	-.00223	.01303	.00030

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.427	-.00027	.00194	-.00311	.20020	.00021	.00095
SDev	.006	.00010	.00023	.00003	.01659	.00011	.00011
%RSD	.01256	37.763	11.984	.93085	8.2869	51.288	11.739
#1	48.432	-.00034	.00178	-.00313	.18847	.00014	.00088
#2	48.423	-.00019	.00211	-.00309	.21193	.00029	.00103

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00155	1.4394	.22419	.00002	.00060	.02897	.31652
SDev	.00343	.0062	.00022	.00036	.00004	.04537	.00125
%RSD	222.05	.43078	.09737	1687.9	7.2197	156.63	.39556
#1	-.00088	1.4350	.22434	.00028	.00057	-.00312	.31563
#2	.00397	1.4438	.22403	-.00023	.00063	.06105	.31740

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	172.46	143.23	.08965	-.00166	.00123	-.00044
SDev	.00021	.45	.31	.00014	.00270	.00044	.00025

%RSD	149.37	.26154	.21976	.15745	162.81	35.775	55.846
#1	-.00001	172.78	143.45	.08975	.00025	.00154	-.00062
#2	.00029	172.14	143.01	.08955	-.00357	.00092	-.00027

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00263	.00351	-.00033	.00294	.00085
SDev	.00019	.00032	.00042	.00038	.00207	.00411
%RSD	53.886	12.264	11.942	116.16	70.518	484.51
#1	.00022	.00240	.00381	-.00059	.00147	-.00206
#2	.00049	.00286	.00322	-.00006	.00440	.00375

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31660	--	--	--	--	--	--
SDev	159.0990	--	--	--	--	--	--
%RSD	.5025317	--	--	--	--	--	--
#1	31772	--	--	--	--	--	--
#2	31547	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met1012ccv_00006 Operator: DCL
Run Time: 10/25/12 16:04:13
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4722	.52618	.50606	.52767	.43001	.52341	.52145
SDev	.0072	.00044	.00024	.00045	.00011	.00048	.00007
%RSD	.29246	.08261	.04797	.08564	.02615	.09105	.01387
#1	2.4773	.52648	.50589	.52735	.43009	.52374	.52150
#2	2.4671	.52587	.50624	.52799	.42993	.52307	.52140

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.754	.44288	.44267	.45026	2.4565	.49660	.48117
SDev	.002	.00086	.00081	.00026	.0132	.00055	.00186
%RSD	.01301	.19402	.18396	.05834	.53927	.11120	.38687
#1	11.753	.44348	.44325	.45045	2.4658	.49699	.48248
#2	11.755	.44227	.44210	.45008	2.4471	.49621	.47985

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49107	4.4594	.46170	.50294	.52166	13.036	.89826
SDev	.00452	.0007	.00026	.00180	.00076	.019	.00087
%RSD	.92007	.01657	.05670	.35898	.14569	.14896	.09654
#1	.48788	4.4599	.46188	.50166	.52113	13.049	.89887
#2	.49427	4.4588	.46151	.50421	.52220	13.022	.89765

♀

Analysis Report 10/25/12 04:08:01 PM page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24294	12.576	12.992	.26189	.55010	.46363	.48555
SDev	.00058	.028	.000	.00011	.00665	.00155	.00020
%RSD	.23707	.22451	.00110	.04142	1.2084	.33483	.04127
#1	.24335	12.596	12.993	.26196	.54540	.46253	.48569
#2	.24254	12.556	12.992	.26181	.55480	.46472	.48541

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46192	.51932	.38302	.53024	.40043	.53645
SDev	.00048	.00027	.00108	.00225	.00511	.00422
%RSD	.10458	.05197	.28209	.42471	1.2768	.78683
#1	.46226	.51951	.38378	.53183	.39682	.53346
#2	.46158	.51913	.38226	.52865	.40405	.53943

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31812	--	--	--	--	--	--
SDev	36.76955	--	--	--	--	--	--
%RSD	.1155839	--	--	--	--	--	--
#1	31838	--	--	--	--	--	--
#2	31786	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL
Run Time: 10/25/12 16:08:04
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16738	.00158	.00138	.00008	-.00196	.00152	-.00006
SDev	.00185	.00002	.00101	.00009	.00000	.00054	.00004
%RSD	1.1078	1.1264	72.834	117.37	.19979	35.765	57.582
#1	.16869	.00157	.00209	.00014	-.00196	.00190	-.00009
#2	.16607	.00159	.00067	.00001	-.00196	.00113	-.00004

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02257	-.00006	-.00007	-.00563	.02065	.00006	.00113
SDev	.00135	.00038	.00031	.00044	.01715	.00001	.00107
%RSD	5.9679	588.56	436.61	7.7505	83.052	15.282	94.771
#1	-.02352	.00020	-.00029	-.00532	.00852	.00007	.00037
#2	-.02161	-.00033	.00015	-.00594	.03278	.00006	.00188

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00262	-.00512	-.00002	.00142	-.00202	-.05832	-.01559
SDev	.00014	.00186	.00006	.00103	.00131	.00534	.00083
%RSD	5.1684	36.412	247.97	72.313	64.957	9.1627	5.3162

#1	.00271	-.00644	.00002	.00215	-.00295	-.06210	-.01500
#2	.00252	-.00380	-.00006	.00070	-.00109	-.05454	-.01618

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	-.02519	.01310	.00016	.00343	.00197	-.00000
SDev	.00033	.01793	.00047	.00000	.00043	.00281	.00016
%RSD	47.393	71.185	3.6137	.64846	12.560	142.85	20805.
#1	.00046	-.01251	.01277	.00016	.00373	-.00002	.00011
#2	.00093	-.03787	.01344	.00016	.00312	.00396	-.00012

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00054	-.00129	.00015	.00161	-.00541	.00663
SDev	.00046	.00003	.00021	.00171	.00155	.00097
%RSD	83.437	2.5492	140.55	105.94	28.574	14.714
#1	.00087	-.00131	.00030	.00040	-.00650	.00732
#2	.00022	-.00127	.00000	.00282	-.00431	.00594

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32132	--	--	--	--	--	--
SDev	77.07464	--	--	--	--	--	--
%RSD	.2398725	--	--	--	--	--	--
#1	32186	--	--	--	--	--	--
#2	32077	--	--	--	--	--	--

♀

Analysis Report 10/25/12 04:18:28 PM page 1

Method: 20076010 Sample Name: ICSA metisa_00081 Operator: DCL
Run Time: 10/25/12 16:14:40
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	450.71	.00246	.00108	.00173	-.00257	.00100	-.00398
SDev	.08	.00006	.00184	.00001	.00001	.00125	.00014
%RSD	.01669	2.4592	169.58	.27079	.48437	123.94	3.6361
#1	450.77	.00251	.00238	.00173	-.00256	.00012	-.00388
#2	450.66	.00242	-.00022	.00173	-.00258	.00188	-.00408

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	435.51	.00166	-.00060	.00797	195.20	.00365	.00902
SDev	.13	.00013	.00003	.00017	.09	.00003	.00086
%RSD	.03034	7.6810	5.3341	2.1876	.04792	.82090	9.5178
#1	435.60	.00175	-.00058	.00784	195.27	.00367	.00842
#2	435.41	.00157	-.00062	.00809	195.14	.00362	.00963

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01698	470.34	-.00487	-.00152	-.00124	.15103	.00069
SDev	.00079	.17	.00002	.00071	.00019	.00920	.00182
%RSD	4.6794	.03607	.44239	46.350	15.267	6.0928	265.91
#1	-.01642	470.22	-.00486	-.00202	-.00110	.14452	-.00060
#2	-.01754	470.46	-.00489	-.00102	-.00137	.15753	.00197

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	-.01242	.22565	-.00815	-.00203	-.00082	-.00271
SDev	.00050	.17062	.00014	.00001	.00151	.00135	.00004
%RSD	665.79	1373.7	.06349	.06417	74.131	165.58	1.4071
#1	.00028	-.13307	.22555	-.00816	-.00310	-.00177	-.00274
#2	-.00043	.10823	.22576	-.00815	-.00097	.00014	-.00268

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00606	-.00195	.00959	.00874	-.00329	-.02382
SDev	.00006	.00011	.00260	.00259	.00168	.00035
%RSD	.98574	5.5630	27.085	29.589	51.045	1.4735
#1	.00610	-.00202	.01142	.00691	-.00211	-.02357
#2	.00602	-.00187	.00775	.01057	-.00448	-.02407

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28876	--	--	--	--	--	--
SDev	21.21320	--	--	--	--	--	--
%RSD	.0734631	--	--	--	--	--	--

#1	28891	--	--	--	--	--	--
#2	28861	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb_00083 Operator: DCL
Run Time: 10/25/12 16:18:31
Comment: TRACE 61E
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	459.69	1.1053	1.0595	1.1017	.43567	1.1106	.50276
SDev	1.58	.0011	.0036	.0021	.00131	.0014	.00081
%RSD	.34408	.09831	.33810	.18903	.30113	.12433	.16219
#1	460.81	1.1060	1.0569	1.1032	.43660	1.1116	.50333
#2	458.58	1.1045	1.0620	1.1003	.43474	1.1097	.50218

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	440.71	.88538	.86860	.99943	204.37	.62996	.97254
SDev	1.38	.00268	.00250	.00351	.53	.00131	.00083
%RSD	.31358	.30306	.28830	.35102	.25992	.20802	.08504
#1	441.68	.88728	.87037	1.0019	204.75	.63089	.97196
#2	439.73	.88349	.86683	.99695	204.00	.62903	.97313

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0152	478.92	.92152	1.0309	1.0050	15.267	.95035
SDev	.0030	1.66	.00263	.0009	.0048	.061	.00273
%RSD	.29688	.34700	.28570	.08499	.47599	.40005	.28733
#1	1.0131	480.09	.92338	1.0315	1.0083	15.310	.95229
#2	1.0174	477.74	.91966	1.0303	1.0016	15.224	.94842

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54008	11.582	14.211	.53405	1.0907	.94810	.99455
SDev	.00192	.093	.038	.00093	.0014	.00241	.00237
%RSD	.35461	.80006	.26622	.17451	.13119	.25446	.23791

#1	.54143	11.517	14.238	.53471	1.0917	.94981	.99623
#2	.53873	11.648	14.184	.53339	1.0897	.94640	.99288

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93757	1.0683	.77955	1.0690	.84811	1.0988
SDev	.00213	.0036	.00323	.0029	.00183	.0054
%RSD	.22726	.33591	.41485	.26730	.21621	.49488
#1	.93908	1.0709	.78184	1.0670	.84940	1.0949
#2	.93607	1.0658	.77726	1.0711	.84681	1.1026

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 10/25/12 04:22:19 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28954	--	--	--	--	--	--
SDev	127.9863	--	--	--	--	--	--
%RSD	.4420409	--	--	--	--	--	--
#1	28863	--	--	--	--	--	--
#2	29044	--	--	--	--	--	--

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Batch Number: 91839 Batch Start Date: 10/24/12 12:17 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	METH202 00024	METHCL 00043	METHNO3 00033
MB 600-91839/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
LCSSRM 600-91839/2		3050B, 6010B		CALC NOT SET TO RUN	0.50 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-1	2012-FWFS-3-Wall	3050B, 6010B	T	CALC NOT SET TO RUN	1.01 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-2	2012-FWFS-3-Floor	3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-3	2012-FWFS-2-Wall	3050B, 6010B	T	CALC NOT SET TO RUN	1.06 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-4	2012-FWFS-2-Floor	3050B, 6010B	T	CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-5	2012-FWFS-1-Floor	3050B, 6010B	T	CALC NOT SET TO RUN	1.08 g	50 mL	4 mL	2.5 mL	5 mL
600-63252-A-6	2012-FWFS-1-Wall	3050B, 6010B	T	CALC NOT SET TO RUN	1.06 g	50 mL	4 mL	2.5 mL	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSLCSS 00019					
MB 600-91839/1		3050B, 6010B							
LCSSRM 600-91839/2		3050B, 6010B		0.5 g					
600-63252-A-1	2012-FWFS-3-Wall	3050B, 6010B	T						
600-63252-A-2	2012-FWFS-3-Floor	3050B, 6010B	T						
600-63252-A-3	2012-FWFS-2-Wall	3050B, 6010B	T						
600-63252-A-4	2012-FWFS-2-Floor	3050B, 6010B	T						
600-63252-A-5	2012-FWFS-1-Floor	3050B, 6010B	T						
600-63252-A-6	2012-FWFS-1-Wall	3050B, 6010B	T						

Batch Notes	
Balance ID	B-6
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95 Degrees C
ID number of the thermometer	517

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Batch Number: 91839 Batch Start Date: 10/24/12 12:17 Batch Analyst: Racelis, Froilan Noel E

Batch Method: 3050B Batch End Date:

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-63252-1

SDG No.:

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
2012-FWFS-3-Wall	600-63252-1
2012-FWFS-3-Floor	600-63252-2
2012-FWFS-2-Wall	600-63252-3
2012-FWFS-2-Floor	600-63252-4
2012-FWFS-1-Floor	600-63252-5
2012-FWFS-1-Wall	600-63252-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-63252-1

SDG Number:

Matrix: Solid Instrument ID: B1

Method: Moisture RL Date: 09/05/2005 11:35

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston   Job No.: 600-63252-1

SDG No.:

Instrument ID: B1   Method: Moisture

Start Date: 10/24/2012 15:25   End Date: 10/24/2012 16:52

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
600-63252-1	1	T	15:25	X	X
600-63252-2	1	T	15:25	X	X
600-63252-3	1	T	15:25	X	X
600-63252-4	1	T	15:25	X	X
600-63252-5	1	T	15:25	X	X
600-63252-6	1	T	15:25	X	X
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		
ZZZZZZ			15:25		

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Instrument ID: B1 Method: Moisture

Start Date: 10/24/2012 15:25 End Date: 10/24/2012 16:52

Lab Sample ID	D/F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			15:25																					
ZZZZZZ			15:25																					
ZZZZZZ			15:25																					
ZZZZZZ			15:25																					
ZZZZZZ			15:25																					
ZZZZZZ			15:32																					
ZZZZZZ			16:52																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-63252-1

SDG No.:

Batch Number: 91866 Batch Start Date: 10/24/12 15:25 Batch Analyst: Daniel, Kevin R

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
600-63252-A-1	2012-FWFS-3-Wall	Moisture	T	1.16 g	14.78 g	11.81 g			
600-63252-A-2	2012-FWFS-3-Floor	Moisture	T	1.15 g	16.24 g	12.48 g			
600-63252-A-3	2012-FWFS-2-Wall	Moisture	T	1.16 g	14.08 g	11.45 g			
600-63252-A-4	2012-FWFS-2-Floor	Moisture	T	1.18 g	16.37 g	12.55 g			
600-63252-A-5	2012-FWFS-1-Floor	Moisture	T	1.14 g	23.77 g	22.38 g			
600-63252-A-6	2012-FWFS-1-Wall	Moisture	T	1.15 g	16.21 g	12.61 g			

Batch Notes	

Basis	Basis Description
T	Total/NA

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Paster, Behling & Wheeler	Eric Pastor	10/22/12	205136
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2201 Double Creek Dr. #4004	(512) 671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664		S. Kudchadkar	
Project Name and Location (State)	**Carrier/Waybill Number**		
Ende Frisco Recyling Center			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Other	Analysis: Total Metals-Pb	TPH-1005	Special Instructions/ Conditions of Receipt
2012-FWFS-3-Wall	10/22/12	1010				X							X	X	X	Hold TPH 1006
2012-FWFS-3-Floor		1019				X							X	X	X	
2012-FWFS-2-Wall		1024				X							X	X	X	
2012-FWFS-2-Floor		1035				X							X	X	X	
2012-FWFS-1-Floor		1048				X							X	X	X	
2012-FWFS-1-Wall		1052				X							X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Robert M Clune	10/22/12 1348	1348	1. Received By		
2. Relinquished By			2. Received By	10/23/12	0946
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

11/7/2012

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-63252-1

Login Number: 63252

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	9.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

DATA VALIDATION AND USABILITY SUMMARY

FRISCO RECYCLING CENTER
EXIDE TECHNOLOGIES
FRISCO, TEXAS

JANUARY 2013 SAMPLING EVENT
SURFACE SOIL SAMPLES

Prepared by:

Quality Assurance Associates (*QAA, L.L.C.*)
1007 Francis Drive
College Station, TX 77840
www.qaallc.com
979-694-7199

February 15, 2013
Revised June 12, 2013

TABLE OF CONTENTS

1.0 PROJECT OVERVIEW AND SUMMARY 1

2.0 PROCEDURES 2

3.0 DATA VALIDATION RESULTS 3

3.1 PRECISION 3
3.1.1 Laboratory Control Sample Duplicate (LCSD) Precision 3
3.1.2 Matrix Duplicate (MD) and Matrix Spike Duplicate (MSD) Precision 3
3.1.3 Field Duplicate (FD) Precision 3
3.2 ACCURACY 3
3.2.1 Laboratory Control Sample (LCS/LCSD) Accuracy 4
3.2.2 Matrix Spike (MS/MSD) and Post Digestion Spike (PDS) Accuracy 4
3.2.3 Serial Dilution (SD) %Difference 4
3.2.4 Surrogate (SU) Recovery 4
3.3 REPRESENTATIVENESS 4
3.3.1 Chain-of-Custody 5
3.3.2 Sample Preservation and Holding Time 5
3.3.3 Blank Contamination 5
3.3.4 Sample Results Evaluation 5
3.4 SENSITIVITY 5
3.4.1 Instrument Performance and Calibration 5
3.4.2 Internal Standards 6
3.4.3 Comparison of Reporting Limits to Decision Criteria 6
3.5 COMPLETENESS 6
3.6 COMPARABILITY 6

4.0 DATA VERIFICATION RESULTS 7

5.0 RECONCILIATION WITH USER REQUIREMENTS 9

5.1 USABILITY OF UNQUALIFIED DATA FOR NONDETECTED RESULTS 9
5.2 USABILITY OF QUALIFIED DATA 9

LIST OF TABLES

Table 1 – Sample Summary
Table 2 – Data Validation Qualifiers (DVQs)
Table 3 – QC Deficiencies and Data Qualification Actions
Table 4 – Qualified Sample Results

ATTACHMENTS

Attachment A – Validator's Checklists

1.0 PROJECT OVERVIEW AND SUMMARY

Quality Assurance Associates (QAA) completed a third party QA/QC data validation of chemical analysis data from the Exide Technologies Frisco Recycling Center in Frisco, Texas. The independent data validation, which included a data verification process and usability determination, was completed in accord with the Quality Assurance Project Plan (revised November 2011), hereinafter called the QAPP, using Level IV data packages and electronic data deliverables (EDD) supplied by the laboratory (TestAmerica-Houston). The data include 25 investigative soil samples and the associated QC samples, as listed in Table 1. The samples were collected by Pastor, Behling, and Wheeler, LLC (PBW) on January 15, 2013 and the results will be used for an Affected Property Assessment. QAA performed the validation per the procedures specified in section 6.0 of the QAPP using the guidelines presented in the U.S. EPA Contract Laboratory Program *National Functional Guidelines for Inorganic Superfund Data Review* (January 2010) and *National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008), hereinafter called the NFG, and the QC requirements in the analytical methodology used by the laboratory.

This report was revised on June 12, 2013 to include a review of the laboratory data for the analyte Arsenic, which was added by PBW to two samples for the non-ecological assessment. The laboratory reported this additional metal from the original ICP run.

The results of the review are summarized in Table 4, which lists all of the qualified sample results. All qualified data is considered useable with limitations as discussed in Section 5.0.

2.0 PROCEDURES

QAA completed the validation by examining the hardcopy package and EDD produced by the laboratory, which include analysis results, QC reports, and raw data. QAA examined the data for all of the samples for:

- Data Package Completeness,
- Chain-of-Custody Procedures,
- Sample Preservation and Holding Time,
- Instrument Calibration and Performance,
- Calibration Verification,
- Blanks (Laboratory and Field),
- Surrogates (SU),
- Matrix Spike/Matrix Spike Duplicates (MS/MSD),
- Matrix Duplicates (MD),
- Serial Dilutions (SD),
- Laboratory Control Sample/Laboratory Control Sample Duplicates (LCS/LCSD),
- Internal Standards (IS),
- Analyte Identification, and
- Field Duplicates (FD).

Additionally, using the EDD, the validator verified that the reporting limits and detection limits for all of the samples were properly adjusted for sample-specific factors such as dilution, dry-weight correction, and use of a smaller or larger sample aliquot. For two of the 25 samples, the validator reviewed the raw data and determined that the sample results (both metals and PAH) were correctly calculated and reported.

The validator performed the validation using data validation checklists (Attachment A) and the following QC criteria:

- Laboratory Accuracy – the method-specified recovery control limits (75-125% for metals and those statistically determined by the laboratory for PAH) with a data rejection limit of 30% for inorganics and 10% for organics
- Laboratory Precision – the method-specified RPD control limit of 20% or an absolute difference control limit of 1x the reporting limit (if either result is less than or equal to 5x the reporting limit) per the NFG

After completing the examination, the validator applied qualifying flags to any data with a QC deficiency. The qualifiers were applied in accord with the NFG and include the expected direction of bias if apparent from the QC outcome. The validator considered each QC deficiency separately and then, for multiple deficiencies, applied the most severe flag. The data validation qualifiers (DVQs) are defined in Table 2. Note that the DVQ replaces all qualifiers applied by the laboratory.

Upon completion of the validation, QAA performed data verification to assess the entire data set for overall trends in data quality and usability. Data quality was examined in terms of precision, accuracy, representativeness, sensitivity, completeness, and comparability. Data usability was then determined considering the intended use, laboratory reporting limits, and QC deficiencies found during validation using the U.S. EPA's Guidance for Data Useability in Risk Assessment, Part A (April 1992).

3.0 DATA VALIDATION RESULTS

The soil samples were analyzed for total metals and/or polynuclear aromatic hydrocarbons (PAH). All of the samples were included in the validation and the outcomes are summarized below.

3.1 PRECISION

QAA evaluated the sampling and analytical precision of the sample results using the relative percent difference (RPD) for the laboratory control sample duplicates (LCSD), the unspiked matrix duplicates (MD) and matrix spike duplicates (MSD), and the field duplicates (FD). LCSD are prepared using a clean sample matrix (reagent water or sand) and provide an indication of the precision of the preparation and analysis technique on a sample free of matrix effects. MD and MSD are prepared by the laboratory using a field sample. They provide an indication of the precision of the preparation and analysis technique on the specific sample matrix. FD are prepared by the sampler in the field and provide an indication of the precision of the sampling technique plus the preparation and analysis technique on the specific sample matrix.

3.1.1 LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) PRECISION

No LCSD were analyzed or required per the analytical methodology for the tests performed during this event.

3.1.2 MATRIX DUPLICATE (MD) AND MATRIX SPIKE DUPLICATE (MSD) PRECISION

The laboratory analyzed at least one MD and/or MSD with each analytical batch (maximum 20 samples) and reported RPDs for all analytes for MD and MSD prepared using a sample from the site. As indicated in Table 1, three MD and three MSD were prepared for metals using a soil sample from the site. The QC for the PAH batch was prepared using a sample from another site.

For metals, the RPDs for arsenic and cadmium are within the QC criteria while several of the MD and MSD RPDs for lead are above the QC criteria (maximum 20%). The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results. Note that, for cases where either result for the duplicate pair is less than 5x the reporting limit, the validator compared the absolute difference between the two results to a control limit of 1x the reporting limit rather than evaluating the RPD per the NFG. Additionally, for the duplicates prepared using samples SCC-4 and SCC-7, both of which required filtration of the digestate to reduce matrix interference, the validator considered samples of the same investigative media with similar interference issues to be of similar matrix (i.e., all SCC soil samples requiring filtration of the digestate, which is all SCC samples except SCC-2).

3.1.3 FIELD DUPLICATE (FD) PRECISION

No FD were collected or required per the QAPP for the media sampled during this event.

3.2 ACCURACY

QAA evaluated the analytical accuracy of the sample results using the results for the laboratory control samples (LCS/LCSD), matrix spikes (MS/MSD) and post-digestion spikes (PDS), and serial dilutions (SD). LCS/LCSD are prepared using a clean sample matrix (reagent water or sand) and provide an indication of the accuracy of the preparation and analysis technique on a sample free of matrix effects. MS/MSD are prepared using a field sample and provide an indication of the accuracy of the preparation and analysis technique on the specific sample matrix. PDS are prepared like MS/MSD

except the spike is added after preparation just before analysis rather than before preparation. SD are prepared using a field sample and indicate whether or not matrix interferences are significantly affecting the accuracy for results that are substantially above the reporting limit.

3.2.1 LABORATORY CONTROL SAMPLE (LCS/LCSD) ACCURACY

The laboratory analyzed a LCS with every analytical batch (maximum 20 samples) as required and reported recoveries for all analytes. No LCSD were analyzed or required for the analytical methodology used for this event. All LCS recoveries are within the QC criteria (75-125%).

3.2.2 MATRIX SPIKE (MS/MSD) AND POST-DIGESTION SPIKE (PDS) ACCURACY

The laboratory analyzed at least one MS and MSD with each analytical batch (maximum 20 samples) and reported recoveries for all analytes for MS/MSD prepared using a sample from the site. Additionally, the laboratory analyzed a PDS for every metals analytical batch and reported recoveries for all metals. As indicated in Table 1, three MD and three MSD were prepared for metals using a soil sample from the site. The QC for the PAH batch was prepared using a sample from another site.

For metals, the MS/MSD recoveries for cadmium are within the QC criteria, one MSD recovery for arsenic is outside the criteria, and most of the MS/MSD recoveries for lead are outside the QC criteria (75-125%). The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results. Note that, for the MS/MSD prepared using sample ECO-10, lead was detected in the unspiked parent sample at a concentration well above (greater than four times) the concentration of spike added to the sample, thereby rendering the recoveries inconclusive. The PDS recovery is within the criteria at 95% and thus the data was not qualified. For the MS/MSD prepared using samples SCC-4 and SCC-7, both of which required filtration of the digestate to reduce matrix interference, the validator considered samples of the same investigative media with similar interference issues to be of similar matrix (i.e., all SCC soil samples requiring filtration of the digestate, which is all SCC samples except SCC-2).

3.2.3 SERIAL DILUTION (SD) %DIFFERENCE

The laboratory analyzed at least one SD with each metals analytical batch (maximum 20 samples) and reported the %difference for all metals with a concentration greater than 50x the MDL for SD prepared using a sample from the site. Two SD were prepared using a soil sample from the site (ECO-10 and SCC-4) and the SD %differences are within the method criteria (maximum 10% difference).

3.2.4 SURROGATE (SU) RECOVERY

The laboratory spiked each PAH sample with six surrogates before preparation and analysis and the recoveries are within the QC criteria for all samples.

3.3 REPRESENTATIVENESS

QAA evaluated representativeness of the sample results by examining the custody procedures, calculating holding times, examining blanks for evidence of contamination, and examining sample results for outliers or suspect values.

3.3.1 CHAIN-OF-CUSTODY

All samples were delivered to the laboratory by an overnight, commercial carrier within two days of collection with properly executed chain-of-custody records, which confirms that sample integrity was maintained. Additionally, the information on the custody record is correct and complete except for two minor inconsistencies as follows:

- There is no sample collection time for sample SCC-14 on the custody record. The laboratory used the collection time on the sample bottle, which was confirmed correct by the sampler.
- The custody record does not include a designation under sample type (composite or grab). The sampler confirmed that all samples are grab samples.

3.3.2 SAMPLE PRESERVATION AND HOLDING TIME

All samples were properly preserved and analyzed within the holding times listed in Table 5-1 of the QAPP, which confirms that sample results are not affected by sample degradation.

3.3.3 BLANK CONTAMINATION

The laboratory analyzed a preparation blank for every analytical batch (maximum 20 samples) and a calibration blank for every 10 metals analyses. No detects are reported in the laboratory blanks, which indicates no contamination was introduced in the laboratory.

No field QC blanks were collected since disposable equipment was used for collection and VOC analyses were not requested.

3.3.4 SAMPLE RESULTS EVALUATION

As previously noted, no field duplicate results are available for comparison. Additionally, there are no total and partial results (e.g. total and leachate metals) available for comparison.

3.4 SENSITIVITY

QAA evaluated sensitivity by examining the instrument performance, internal standard response, and the sample reporting limits as compared to decision criteria.

3.4.1 INSTRUMENT PERFORMANCE AND CALIBRATION

The laboratory properly calibrated each instrument and analyzed a calibration verification standard for every 10 metals analyses and at the beginning of every PAH analytical shift. Recoveries for all calibration verification standards are within the method criteria (90-110% for metals and 80-120% for PAH), which indicates the instruments were properly calibrated and stable throughout the analytical shift, except in one case. The validator qualified the associated data per the NFG as detailed in Table 3. Table 4 lists all qualified sample results.

The laboratory also analyzed quarterly low-level detectability check standards (DCS).The DCS confirm the reasonableness of the laboratory method detection limits (MDLs) (i.e., they indicate that the analyte is recoverable at a spike level within 2-5x the MDL for metals and 2-10x the MDL for PAH) for all investigative samples.

3.4.2 INTERNAL STANDARDS

The laboratory used six internal standards for each PAH analysis. The internal standard responses and retention times met the requirements in the analytical method, which indicates that there was no loss in sensitivity and that analytes were properly identified and quantitated.

3.4.3 COMPARISON OF REPORTING LIMITS TO DECISION CRITERIA

The decision criteria (i.e., protective concentration levels) have not yet been established.

3.5 COMPLETENESS

QAA evaluated completeness by examining the laboratory data package for reporting issues/missing information and by determining the amount of valid data obtained for the samples.

The validator noted the following reporting issues in the laboratory data package, both of which the laboratory corrected in a revision submitted on February 14, 2013:

- Metals forms 2A and 3 did not include the results for cadmium for analytical shift 98194.
- The QC summary form for the %moisture laboratory duplicate 600-67185-A-16 (SCC-1) did not show the RPD.

The revised level IV data package contains all necessary information and the raw data review indicates the results are reported correctly without calculation or transcription errors.

QAA evaluated field completeness by comparing the total number of tests performed with the total number of tests planned for investigative samples. All planned investigative samples were collected and analyzed for the requested tests, giving a field completeness of 100%. The typical goal is 90%. (The QAPP does not include completeness goals.)

QAA evaluated laboratory completeness by comparing the total number of valid analytical results with the total number of results reported for investigative samples. The validator did not reject any results, giving a laboratory completeness of 100%. The typical goal is 90%. (The QAPP does not include completeness goals.)

3.6 COMPARABILITY

Samples were analyzed using standard EPA protocols as shown in Table 1. The methodologies employed by the laboratory are specified for use in the QAPP (where available) and provide definitive, quantitative data. The hardcopy sample results are reported with the sample detection limit (SDL) and the method quantitation limit (MQL). The EDD includes the SDL (under the Low Limit column) and the sample quantitation limit (SQL, under the High Limit column). A detection limit corresponds to the lowest concentration at which an analyte can be positively identified but not necessarily accurately measured and is statistically determined by the laboratory. A quantitation limit reflects the lowest concentration at which an analyte can be both positively identified and accurately measured. The SDLs and SQLs reported by the laboratory are adjusted for sample-specific actions such as dilution or use of a smaller aliquot size and include dry-weight correction for all solid samples. Sample results are reported in mg/kg. Non-detects are reported as less than the SDL and detects between the SDL and SQL are reported with a laboratory J flag. Since these detects are below the calibration range, the validator qualified each as estimated with an unknown bias (J).

The analytical results were reviewed and are classified as Level IV data. The analytical results are considered comparable to other results similarly generated.

4.0 DATA VERIFICATION RESULTS

Upon completion of the validation, data verification was completed to summarize overall trends in data quality as follows:

1. Precision is the degree of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions, without assumption of any prior information as to the true result. Precision is measured through the analysis of replicate or duplicate samples and calculation of the relative percent difference (RPD) between the results. The validator assessed precision using the laboratory and field duplicates. The laboratory prepared three MD and three MSD using a sample from the site for metals for this event. The RPDs for these laboratory duplicates are within the limits, which indicates good precision for the analytical method on the specific sample matrix, or the validator qualified the results for similar samples in the same analytical batch as the duplicate. Of the 104 results, 24 results (all of which are for lead) are qualified as estimated (J) based on laboratory duplicate precision. No field duplicates were collected or required for this event.

2. Accuracy is the degree of agreement of a measurement with an accepted reference or true value. Accuracy is measured through the analysis of reference samples or the introduction of reference materials (spikes) to field samples and calculation of the percent recovery of the known value. The validator assessed accuracy using the laboratory spikes and matrix spikes. The laboratory prepared a laboratory control sample (LCS) using reagent sand with each analytical batch and reported the recoveries for all analytes. All LCS recoveries are within the limits, which indicates good accuracy for the analytical method on a sample free of matrix effects. Additionally, the laboratory prepared three MS/MSD, two PDS, and two SD using a sample from the site for metals for this event. The SD %differences are within the laboratory limits, which indicates there is no matrix interference affecting the accuracy of the results that are substantially above the reporting limit. The MS/MSD and PDS recoveries are within the laboratory limits, which indicates good accuracy for the analytical method on the specific sample matrix, or the validator qualified the results for similar samples in the same analytical batch as the MS/MSD. None of the results are qualified as rejected due to extremely poor accuracy. Of the 104 results, 14 results (all of which are for lead) are qualified as estimated based on matrix spike results. The PDS prepared with the MS/MSD for these sample shows good recovery (104%).

3. Representativeness expresses the degree to which sample data accurately and precisely represent environmental conditions and parameter variations at a sampling location. Representativeness is a qualitative parameter most concerned with the proper design of the sampling program and is also ensured by using the proper analytical procedures. The validator assessed representativeness by examining custody procedures, sample preservation and holding times, and the laboratory and field QC blanks. Sample preservation and holding times met the method requirements, which indicates the results are not affected by sample degradation. The laboratory prepared a method blank with each analytical batch and analyzed calibration blanks throughout each metals analytical shift. The laboratory blanks show no contamination, which indicates the samples were not affected by laboratory procedures. No field QC blanks were collected or required for this event.

4. Sensitivity (S) is the capability of a method or instrument to discriminate between measurement responses representing different levels of the parameter of interest. Sensitivity is expressed in terms of the laboratory detection limits (which are a measure of the concentration an instrument can detect or 'see' in a sample) and the laboratory reporting limits or quantitation limits (which are a measure of the concentration an instrument can accurately measure in a sample). The laboratory method detection limits (MDLs) are confirmed reasonable by detectability check standards (DCS). Additionally, proper analytical procedures were used and

calibration results met the method requirements, except in one case. The CCV recovery for benzo(g,h,i)perylene is high at 128.8% for the 1/17/13 analytical shift. This resulted in the qualification of the three sample results, which are all detects, for this analyte.

5. Completeness (C) is the amount of valid data obtained from a measurement system compared to the amount that was expected and required to meet the project data goals. QAA calculated field completeness at 100% and laboratory completeness at 100%.

6. Comparability (C) is an expression of the confidence with which one data set can be compared to another. The samples were analyzed using standard EPA protocols as specified in the QAPP. The analytical results were reviewed and are classified as Level IV data and are considered comparable to other results similarly generated. Note that results are reported in mg/kg with dry-weight correction.

5.0 RECONCILIATION WITH USER REQUIREMENTS

Samples results will be used for an Affected Property Assessment.

5.1 USABILITY OF UNQUALIFIED DATA FOR NONDETECTED RESULTS

The laboratory reported non-detects at the sample detection limit (SDL), which is the method detection limit (MDL) adjusted for sample-specific actions such as dilution, dry-weight correction, or use of a smaller sample aliquot. The MDLs are confirmed reasonable by the analysis of detectability check standards (DCS). The decision criteria (i.e., protective concentration levels) have not yet been established.

5.2 USABILITY OF QUALIFIED DATA

Table 4 shows the qualified data for all samples. No results are qualified as rejected (R) and thus all data is suitable for the intended use. Some detects are qualified as estimated with an indeterminate bias (J). Detects that are estimated can be used; however, the reported concentration may be either low or high.

TABLE 1
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
JANUARY 2013 SAMPLING EVENT
SURFACE SOIL SAMPLES

SAMPLE SUMMARY

Lab ID	Client ID	Matrix	Type	Collection Date	Receive Date	QC Batch (Dilution Factor)[1]			
						Total Arsenic	Total Cadmium	Total Lead	PAH
600-67185-1	ECO-1	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-2	ECO-2	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-3	ECO-5	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-4	ECO-6	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-5	ECO-3	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-6	ECO-4	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-7	ECO-7	Solid	INV	1/15/13	1/16/13	600-97545 (1x)	600-97545 (1x)	600-97545 (1x)	NA
600-67185-8	ECO-10	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-8	ECO-10	Solid	MD	1/15/13	1/16/13	600-97545 (1x)	600-97545 (1x)	600-97545 (1x)	NA
600-67185-8	ECO-10	Solid	MS	1/15/13	1/16/13	600-97545 (1x)	600-97545 (1x)	600-97545 (1x)	NA
600-67185-8	ECO-10	Solid	MSD	1/15/13	1/16/13	600-97545 (1x)	600-97545 (1x)	600-97545 (1x)	NA
600-67185-9	ECO-8	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-10	ECO-9	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-11	SCC-2	Solid	INV	1/15/13	1/16/13	NA	600-97545 (1x)	600-97545 (1x)	NA
600-67185-12	SCC-4	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-12	SCC-4	Solid	MD	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-12	SCC-4	Solid	MS	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-12	SCC-4	Solid	MSD	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-13	SCC-5	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-14	SCC-7	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA

Lab ID	Client ID	Matrix	Type	Collection Date	Receive Date	QC Batch (Dilution Factor)[1]			
						Total Arsenic	Total Cadmium	Total Lead	PAH
600-67185-14	SCC-7	Solid	MD	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-14	SCC-7	Solid	MS	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-14	SCC-7	Solid	MSD	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-15	SCC-9	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-16	SCC-1	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-17	SCC-3	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (10x)	600-97445 (1x)
600-67185-18	SCC-6	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	600-97445 (1x)
600-67185-19	SCC-8	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (10x)	600-97445 (1x)
600-67185-20	SCC-10	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-21	SCC-11	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-22	SCC-12	Solid	INV	1/15/13	1/16/13	600-97639 (1x)	600-97639 (1x)	600-97639 (1x)	NA
600-67185-23	SCC-13	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-24	SCC-15	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA
600-67185-25	SCC-14	Solid	INV	1/15/13	1/16/13	NA	600-97639 (1x)	600-97639 (1x)	NA

INV – Investigative sample
NA – Not analyzed

(1) The following analytical methods were used:

- Total Metals (As, Cd, Pb): SW-846 3050B/6010B
- Polynuclear Aromatic Hydrocarbons (PAH): SW-846 3550B/8270C LL

TABLE 2
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
JANUARY 2013 SAMPLING EVENT
SURFACE SOIL SAMPLES

DATA VALIDATION QUALIFIERS (DVQs)

The DVQ replaces all flags applied by the laboratory.

J = Estimated. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. Directional bias cannot be determined

J- = Estimated low. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. The actual value is expected to be lower.

J+ = Estimated high. The analyte was positively identified; however, the reported sample concentration is approximate due to exceedance of one or more QC requirements. The actual value is expected to be higher.

UJ = Estimated. The analyte was not detected above the reporting limit; however, the reporting limit is approximate due to exceedance of one or more QC requirements.

U = Blank contamination. The analyte was not detected substantially above the level reported in an associated laboratory and/or field blanks.

R = Rejected. The sample result is rejected due to serious QC deficiencies that make it impossible to verify the presence or absence of the analyte.

NOTE: For multiple deficiencies, the reviewer applied the most severe flag. (R>U>J>J-/J+ and R>UJ)

TABLE 3
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
JANUARY 2013 SAMPLING EVENT
SURFACE SOIL SAMPLES

QC DEFICIENCIES AND DATA QUALIFICATION ACTIONS

Sample					Method		Batch		Date/Time		Analyte		Validation	
Lab ID	**Client ID**	**Type**	**Matrix**	**Diln Factor**	**Prep**	**Analy**	**Prep**	**Analy**	**Prep**	**Analy**	**Name**	**Lab Flag**	**QC Deficiency**	**Action**
MATRIX DUPLICATE (MD) PRECISION														
600-67185-8	ECO-10	DU	Solid	1	3050B	6010B	600-97545	600-98194	01/17/13 10:37	01/28/13 11:21	Lead	F	J/UJ to detects/NDs for similar samples (all ECO soils) digested in this batch	Poor MD precision (40 RPD)
600-67185-12	SCC-4	DU	Solid	1	3050B	6010B	600-97639	600-98118	01/18/13 09:43	01/25/13 10:40	Lead	F	J/UJ to detects/NDs for similar samples (all SCC soils except SCC-2 (i.e., all that required filtration to reduce matrix interference))	Poor MD precision (25 RPD)
MATRIX SPIKE DUPLICATE (MSD) PRECISION														
600-67185-8	ECO-10	MSD	Solid	1	3050B	6010B	600-97545	600-98194	01/17/13 10:37	01/28/13 11:25	Lead	4 N	J/UJ to detects/NDs for similar samples (all ECO soils) digested in this batch	Poor MSD precision (26 RPD)
600-67185-14	SCC-7	MSD	Solid	1	3050B	6010B	600-97639	600-98118	01/18/13 09:43	01/25/13 11:14	Lead	N	J/UJ to detects/NDs for similar samples (all SCC soils except SCC-2 (i.e., all that required filtration to reduce matrix interference))	Poor MSD precision (24 RPD)
MATRIX SPIKE (MS/MSD) AND POST-DIGESTION SPIKE (PDS) ACCURACY														
600-67185-8	ECO-10	MSD	Solid	1	3050B	6010B	600-97545	600-98194	01/17/13 10:37	01/28/13 11:25	Arsenic	N	None (average MS/MSD recovery (114%) passes)	High MSD recovery (130%)
600-67185-8	ECO-10	MS	Solid	1	3050B	6010B	600-97545	600-98194	01/17/13 10:37	01/28/13 11:23	Lead	4	None (check waived because unspiked sample conc > 4x spike added)	Low MS recovery (72%); PDS passes at 95%

Sample					Method		Batch		Date/Time		Analyte		Validation	
Lab ID	**Client ID**	**Type**	**Matrix**	**Dln Factor**	**Prep**	**Analy**	**Prep**	**Analy**	**Prep**	**Analy**	**Name**	**Lab Flag**	**QC Deficiency**	**Action**
600-67185-8	ECO-10	MSD	Solid	1	3050B	6010B	600-97545	600-98194	01/17/13 10:37	01/28/13 11:25	Lead	4 N	None (check waived because unspiked sample conc > 4x spike added)	High MSD recovery (280%); PDS passes at 95%
600-67185-12	SCC-4	MS	Solid	1	3050B	6010B	600-97639	600-98118	01/18/13 09:43	01/25/13 10:44	Lead	N	J+ to detects for similar samples (all SCC soils except SCC-2 (i.e., all that required filtration to reduce matrix interference))	High MS recovery (140%); PDS passes at 104%
600-67185-12	SCC-4	MSD	Solid	1	3050B	6010B	600-97639	600-98118	01/18/13 09:43	01/25/13 10:47	Lead	N	J+ to detects for similar samples (all SCC soils except SCC-2 (i.e., all that required filtration to reduce matrix interference))	High MSD recovery (139%); PDS passes at 104%
600-67185-14	SCC-7	MS	Solid	1	3050B	6010B	600-97639	600-98118	01/18/13 09:43	01/25/13 11:03	Lead	N	J+ to detects for similar samples (all SCC soils except SCC-2 (i.e., all that required filtration to reduce matrix interference))	High MS recovery (186%); PDS not analyzed
CALIBRATION VERIFICATION														
CCVIS 600-97642/2		CCV	Water	1	3550B	8270C LL		600-97642	01/16/13 09:41	1/17/13 11:01	Benzo[g,h,i]perylene		J/UJ to detects/NDs for samples on this shift	High CCV recovery (128.8%)

TABLE 4
EXIDE TECHNOLOGIES FRISCO RECYCLING CENTER
JANUARY 2013 SAMPLING EVENT
SURFACE SOIL SAMPLES

QUALIFIED SAMPLE RESULTS

Lab ID	Client ID	Matrix	DiIn Factor	Analysis Method	Analyte	Result	Lab Flag	SDL	SQL	Min Req'd RL	Unit	DVQ	Comment
600-67185-1	ECO-1	Solid	1	6010B	Lead	431		0.135	0.645	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-2	ECO-2	Solid	1	6010B	Lead	396		0.128	0.609	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-5	ECO-3	Solid	1	6010B	Lead	1740		0.132	0.630	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-6	ECO-4	Solid	1	6010B	Lead	373		0.132	0.630	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-3	ECO-5	Solid	1	6010B	Lead	221		0.129	0.614	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-4	ECO-6	Solid	1	6010B	Lead	1030		0.136	0.649	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-7	ECO-7	Solid	1	6010B	Lead	2340		0.148	0.705	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-9	ECO-8	Solid	1	6010B	Lead	600		0.135	0.642	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-10	ECO-9	Solid	1	6010B	Lead	2050		0.137	0.656	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-8	ECO-10	Solid	1	6010B	Lead	345		0.125	0.594	NA	mg/Kg	J	Poor MSD precision (26 RPD); Poor MD precision (40 RPD)
600-67185-16	SCC-1	Solid	1	6010B	Lead	188		0.139	0.665	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-17	SCC-3	Solid	10	6010B	Lead	3510		1.32	6.28	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-12	SCC-4	Solid	1	6010B	Lead	199		0.135	0.644	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-13	SCC-5	Solid	1	6010B	Lead	443		0.141	0.672	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-18	SCC-6	Solid	1	6010B	Lead	200		0.138	0.658	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-14	SCC-7	Solid	1	6010B	Lead	186		0.131	0.624	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-19	SCC-8	Solid	10	6010B	Lead	4870		1.32	6.30	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-15	SCC-9	Solid	1	6010B	Lead	149		0.135	0.644	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)

Lab ID	Client ID	Matrix	Diln Factor	Analysis Method	Analyte	Result	Lab Flag	SDL	SQL	Min Req'd RL	Unit	DVQ	Comment
600-67185-20	SCC-10	Solid	1	6010B	Lead	1510		0.140	0.666	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-21	SCC-11	Solid	1	6010B	Lead	788		0.131	0.624	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-22	SCC-12	Solid	1	6010B	Lead	210		0.132	0.627	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-23	SCC-13	Solid	1	6010B	Cadmium	0.253	J	0.0338	0.330	NA	mg/Kg	J	Result is between SDL and SQL
600-67185-23	SCC-13	Solid	1	6010B	Lead	34.6		0.138	0.659	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-25	SCC-14	Solid	1	6010B	Cadmium	0.158	J	0.0272	0.265	NA	mg/Kg	J	Result is between SDL and SQL
600-67185-25	SCC-14	Solid	1	6010B	Lead	42.7		0.111	0.530	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-24	SCC-15	Solid	1	6010B	Lead	177		0.142	0.676	NA	mg/Kg	J	High MS/MSD recovery (139-186%), PDS passes at 104%; Poor MSD precision (24 RPD); Poor MD precision (25 RPD)
600-67185-17	SCC-3	Solid	1	8270C LL	Anthracene	2.03	J	1.65	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Benzo[a] anthracene	9.03	J	1.78	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Benzo[b] fluoranthene	33.3	J	2.22	43.0	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Benzo[g,h,i] perylene	26.3		6.55	21.5	NA	ug/Kg	J	High CCV recovery (128.8%)
600-67185-17	SCC-3	Solid	1	8270C LL	Benzo[k] fluoranthene	7.19	J	1.92	43.0	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Chrysene	13.7	J	1.32	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Fluoranthene	19.8	J	4.01	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Indeno[1,2,3-cd] pyrene	42.7	J	4.52	43.0	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Phenanthrene	8.28	J	6.39	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-17	SCC-3	Solid	1	8270C LL	Pyrene	15.8	J	2.36	21.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Benzo[a] anthracene	3.31	J	1.83	22.1	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Benzo[a] pyrene	19.4	J	2.14	22.1	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Benzo[b] fluoranthene	19.4	J	2.28	44.2	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Benzo[g,h,i] perylene	20.2	J	6.73	22.1	NA	ug/Kg	J	High CCV recovery (128.8%); Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Benzo[k] fluoranthene	2.18	J	1.98	44.2	NA	ug/Kg	J	Result is between SDL and SQL

Lab ID	Client ID	Matrix	Diln Factor	Analysis Method	Analyte	Result	Lab Flag	SDL	SQL	Min Req'd RL	Unit	DVQ	Comment
600-67185-18	SCC-6	Solid	1	8270C LL	Chrysene	8.51	J	1.35	22.1	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Fluoranthene	8.90	J	4.13	22.1	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-18	SCC-6	Solid	1	8270C LL	Pyrene	7.90	J	2.43	22.1	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-19	SCC-8	Solid	1	8270C LL	Anthracene	5.02	J	1.71	22.3	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-19	SCC-8	Solid	1	8270C LL	Benzo[a] anthracene	16.9	J	1.84	22.3	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-19	SCC-8	Solid	1	8270C LL	Benzo[g,h,i] perylene	33.6		6.77	22.3	NA	ug/Kg	J	High CCV recovery (128.8%)
600-67185-19	SCC-8	Solid	1	8270C LL	Benzo[k] fluoranthene	16.1	J	1.99	44.5	NA	ug/Kg	J	Result is between SDL and SQL
600-67185-19	SCC-8	Solid	1	8270C LL	Phenanthrene	11.3	J	6.61	22.3	NA	ug/Kg	J	Result is between SDL and SQL

ATTACHMENT A
VALIDATOR'S CHECKLISTS

Data Validation Checklist - General

Client Name: PBW		Project Number/ Manager: 1755/Eric Pastor		
Site Name: Exide		QC Level: IV		
Laboratory: TestAmerica (Houston)		Laboratory Job No: 600-67185-1		
Reviewer: Taryn Scholz		Date Checked: 2/7/13 and 6/12/13		
Parameters: Cd/Pb, PAH plus As added June 2013*		Methods: SW3050B/ SW6010B, 3550B/8270C LL		
ITEM	**YES**	**NO**	**N/A**	**CRITERIA**
Laboratory NELAP accredited?	x			
Signed Narrative included?	x			
No analytical discrepancies noted in narrative?		x		see Narrative Comments
Chain of Custody (COC)/ Sample Receipt				
Date/time of sample collection included?		x		see comment no. 1
Sample temp upon receipt 2-6 C?	x			
Proper containers/preservation?	x			
COCs properly executed and seals used?	x			one minor discrepancy, see comment no. 2
Samples received within 2 days?	x			
No. of samples analyzed agrees with work plan?	x			(Sampling and Analysis Work Plan, Rev Nov 2011) see comment no. 3
Analytical Results				
Field, Laboratory, and Batch ID included?	x			
Date of sample collection/receipt included?	x			
Date of sample preparation/analysis included?	x			
NDs at DL or QL and J-values as needed?	x			NDs at SDL and J-values reported; SDL,MQL (Adj) included in HC and EDD (called MDL and MQL in EDD)
Target analyte list complete?	x			see comment no. 3
RLs acceptable?			x	see comment no. 3
MDLs reasonable per DCS?	x			see comment no. 4
No sample dilutions required?		x		dilutions only for detects
Prep/Analysis method references included?	x			
Sample matrix included?	x			
Sample result units reported correctly?	x			mg/kg for metals, ug/kg for PAH w dry-wt correction
Soils/sediments on dry weight?	x			
Holding time to analysis not expired?	x			QAPP Table 3 (method for 8270)
Holding time to preparation not expired?	x			QAPP Table 3 (method for 8270)
QC Samples				
Lab QC frequency met?	x			1 MB/LCS per 20
Field duplicate frequency met?			x	1/20 for SW, GW
Equipment blank frequency met?			x	1/day/reusable eq type - see comment no. 5
Field blank frequency met?			x	1/day/eq type for VOC (i.e., TPH)
Trip blank frequency met?			x	1/cooler w VOC (i.e., TPH)
MS/MSD or MS/DUP frequency met?			x	1/20 for SW, Sed, GW - see comment no. 6
Completeness criteria met?	x			
Field Notes				
Agree with custody records?			x	not included
Field instruments calibrated daily?			x	
Well conditions constant before sampling?			x	
Samples filtered? If so, give turbid/size			x	

Definitions: AA - Atomic Absorption; CCV - Continuing Calibration Verification; COI - Compound of Interest; %D - Percent Difference, DL - Detection Limit; DUP - Duplicate; FDUP - Field Duplicate; ICP - Inductively Coupled Plasma; ICV - Initial Calibration Verification; IDL - Instrument Detection Limit; LCS - Laboratory Control Sample; MDL - Method Detection Limit; MS/MSD - Matrix Spike/Matrix Spike Duplicate; QL - Quantitation Limit; %R - Percent Recovery; RL - Reporting Limit; RPD - Relative Percent Difference; RRF - Relative Response Factor; RT - Retention Time; RSD - Relative Standard Deviation; TA - Target Analyte

COMMENTS

*Arsenic was added for ECO-7 and SCC-12 per PBW's request. The updated report is in TRRP format - without raw data but the original report includes the raw data (and As was reported from the original sample runs).

Comment no. 1

There is no sample collection time for sample SCC-14 on the custody record. The laboratory used the collection time on the sample bottle as confirmed by the sampler.

Comment no. 2
The chain-of-custody does not include a designation under sample type (composite or grab). The sampler confirmed that all samples are grab samples.
Comment no. 3
All samples for this event are additional samples not delineated in the work plan - 25 surface soil samples for Cd/Pb with 3 additionally analyzed for PAH. The data will be used for a Screening Level Ecological Risk Assessment. PCLs will be determined following the assessment.
Comment no. 4
Package includes quarterly DCS spike within 2x MDL for 6010, 2-8x MDL for 8270
Comment no. 5
Disposable equipment used for al samples so no equipment blank required.
Comment no. 6
No field MS/MSD collected or required for these soil samples, but the laboratory selected three project samples (ECO-10, SCC-4, SCC-7) for MS/MSD for Cd/Pb.

Lab Job No.	Method	Batch/Sample	Narrative Comment	Validator Action
600-67185-1	6010B	all SCC samples and QC exc SCC-2	sample required filtration to reduce matrix interference	noted and used for assessing MS/MSD
		-8 MS/D	%R out for Pb but background result > 4x spk added	none - check waived
		-12 MS/D	%R hi for Pb due to MI, LCS passes	flagged per NFG
		-14 MS	%R hi for Pb due to MI, LCS passes	flagged per NFG
		-8 MSD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-14 MSD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-8 MD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-12 MD	RPD for Pb above limit due to nonhomogen nature	flagged per NFG
		-17,19	SDL for Pb elev due to high conc	NA (detects only)
	8270C	97445	lab selected a sample from another group for MS/MSD	NA (MS/MSD not reported)
		95896 (ICAL)	due to software limitation, the Cal Date is referencing 10/4/12 when it should be 12/20/12	
	6010B Rev	-8 MSD	%R hi for As due to MI, LCS passes	flagged per NFG

Data Validation Checklist: Metals

Client Name: PBW		Project Number/ Manager: 1755/Eric Pastor			
Site Name: Exide		QC Level: IV			
Laboratory: TestAmerica (Houston)		Laboratory Job No: 600-67185-1			
Reviewer: Taryn Scholz		Date Checked: 2/7/13 and 6/12/13			
Parameters: Cd/Pb plus As added June 2013		Methods: SW3050B/ SW6010B			
%PERFORMED/ ITEM		**YES**	**NO**	**N/A**	**CRITERIA**
	Method blank data included in Lab Package?	x			
	Criteria met? (< MDL, ≥ -RL)	x			
100	Criteria met for field blanks? (< MDL)			x	
	QC check samples/LCS data included in lab package?	x			
	All project COCs or TAs included?	x			
100	%R criteria met? (individual and overall)	x			method (75-125%)
	Matrix spike data included in lab package?	x			
100	%R criteria met? (individual and overall)		x		method (75-125%); see QC Deficiencies
	Sample duplicate data included in lab package?	x			
100	RPD criteria met?		x		method (20%), NFG (+/-RL if either ≤ 5 see QC Deficiencies
100	Field dup RPD criteria met? (individual, mean, and overall)			x	20% aq, 35% solid (+/-2RL aq, +/-3RL sol if either ≤5RL)
	Instrument Tune for ICP-MS included in lab package?			x	
NA	Instrument Tune method criteria met? (±5 RSD, ±0.1 amu)			x	
	Initial calibration documentation included in lab package?	x			
	All target analytes included?	x			
	blank/1 std (ICP), blank/ 5 stds (Hg)	x			
100	Corr coeff (r) criteria met? (≥0.995)			x	
	Calibration verification data included in lab package?	x			
	ICB/CCB criteria met? (<MDL, ≥-RL)	x			
	ICV %R criteria met? (ICP 90-110%, Hg 80-120%)	x			
	CCV %R criteria met? (ICP 90-110%, Hg 80-120%)	x			
100	LLCCV %R criteria met? (70-130%)	x			reported for instrument TJA1 but not Thermo6500 - not req'd by method so no further action
	Interference check sample data included (ICP/MS only)?	x			
100	%R criteria met? (80-120%)	x			
	Dilution test data included?	x			
100	Results within 10% original? (if >50xMDL)	x			
	Post digestion spike included?	x			
100	%R criteria met?	x			method (75-125%)
	Internal standard data included in lab package?			x	
NA	Intensities within limits? (min 30-120% of calib std)			x	
10	Analyte quantitation/RLs correct?			x	
	QC parameters calculated correctly?			x	

COMMENTS

Data Validation Checklist: GC/MS

Client Name: PBW			Project Number/ Manager: 1755/Eric Pastor			
Site Name: Exide			QC Level: IV			
Laboratory: TestAmerica (Houston)			Laboratory Job No: 600-67185-1			
Reviewer: Taryn Scholz			Date Checked: 2/7/13			
Parameters: PAH			Methods: 3550B/8270C LL			
%PERFORMED/ ITEM			**YES**	**NO**	**N/A**	**CRITERIA**
	Method blank data included in Lab Package?		x			
100	Criteria met? (<MDL)		x			
100	Criteria met for field blanks? (<MDL)				x	
	QC check samples/LCS data included in lab package?		x			
	All project COIs or TAs included?		x			
100	%R criteria met? (individual and overall)		x			method (lab, varies w min 23 max 147)
100	RPD criteria met?				x	
	Matrix spike data included in lab package?			x		performed using sample from another site
100	%R criteria met? (individual and overall)				x	
100	RPD criteria met?				x	
	Surrogate data included in lab package?		x			
	Required surrogates included?		x			
100	%R criteria met? (individual and overall)		x			
100	Field dup RPD criteria met? (individual, mean, and overall)				x	
	Instrument Tune (12-hr) for GC/MS included in lab package?		x			
100	Instrument Tune method criteria met?		x			
	Initial calibration documentation included in lab package?		x			
100	All target analytes included at min 5 levels?		x			
100	RRF met SPCCs/TAs (0.05, 0.01 poor perf)?		x			
100	%RSD criteria met for CCCs/TAs? (30% max for CCC, 15% max (mean) for TAs or curve, 30% qualify)		x			
	Calibration verification data included in lab package?		x			
100	RRF met SPCCs/TAs (0.05, 0.01 poor perf)?		x			
100	%D criteria met for CCC/TAs? (20% max, 25% qualify)			x		see QC Deficiencies
	Internal standard data included in lab package?		x			
100	Areas within limits (within -50/+100% of last calib check)?		x			
100	RTs within limits (<30 sec diff from last calib check)?		x			
10	Analyte qualitative ID criteria met?		x			see comment no. 1
10	Analyte quantitation/RLs correct?		x			
10	QC parameters calculated correctly?		x			
	Surrogate	**Control Limits**				
PAH	2,4,6-Tribromophenol	34-122				Surrogate not applicable - not evaluated
	2-Fluorobiphenyl	51-109				
	2-Fluorophenol	23-108				Surrogate not applicable - not evaluated
	Nitrobenzene-d5	34-118				
	Phenol-d6	26-108				Surrogate not applicable - not evaluated
	Terphenyl-d14	56-123				

COMMENTS

1. Several background ions noted for some of the PAH detects. Laboratory confirmed analytes are prese

QAA, L.L.C.
RAW DATA CALCS
SVOC

Prep Batch:	**600-97445**
Alyt Batch:	600-97642
Samples:	600-67185-17
	600-67185-19

SQL/MQL for all samples calculated correctly? y

			m/z	abn	base	abn	%RA	ck?	Reported
Daily Tune	01171303.D		443	32272	442	160576	20.09765	y	20.1

			SU	ug/L	TC area	IS area	RRF		
ICAL	12/20/12 SVMS06		terp-d14						
	10	ug/L IS		0.5	30102	747739	0.805147		
				1	53880	700987	0.768631		
				2.5	156820	780303	0.803893		
				5	286620	818144	0.700659		
				10	609915	739051	0.825268		
				15	870632	672225	0.863433		
				20	1208074	655889	0.920944		
				25	1462058	737044	0.793471		

Midpt ICAL	Area	RT	50%	200%		Ave RF	0.810181	y	0.8102
IS1	229675	5.46	114837.5	459350		StDev	0.064805		
IS2	998752	6.93	499376	1997504		%RSD	7.99878	y	8
IS3	496791	9.05	248395.5	993582					
IS4	634270	10.87	317135	1268540					
IS5	682475	14.4	341237.5	1364950					
IS6	628089	16.88	314044.5	1256178					

			TA	ng	TC area	IS area	RRF		
			Chrysene						
	10	ug/L IS		0.5	43185	747739	1.155082		
				1	66218	700987	0.944639		
				2.5	184434	780303	0.945448		
				5	384778	818144	0.940612		
				10	766366	739051	1.03696		
				15	1083251	672225	1.074294		
				20	1533716	655889	1.169189		
				25	1840847	737044	0.999043		
						Ave RF	1.033158	y	1.0332
						StDev	0.092839		
						%RSD	8.985946	y	9

			SU	ug/L	TC area	IS area	RRF		
CCV	CCVIS 600-97642/2		terp-d14	10	567204	682475	0.831099	y	0.8311
	10	ug/L IS				%D	2.581875	y	2.6

			TA	ug/L	TC area	IS area	RRF		
			Chrysene	10	652861	682475	0.956608	y	0.9566
						%D	-7.409364	y	-7.4

			SU	IS ug/L	TC area	IS area	ug/L		
SAMPLE			terp-d14	10	222957	603138	4.562706	y	4.563
600-67185-17									
				actual	5	SU %R	91.25413	y	91

		TA	**IS ug/L**	**TC area**	**IS area**	**ug/ml**		
		Chrysene	10	19841	603138	0.318405	y	0.318
1	DF					**ug/kg-dry**		
30.06	g purged					13.7018	y	13.7
22.694	moisture							
1	mls extract				**All results match Form 1/EDD?**		y	
		SU	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
SAMPLE		terp-d14	10	232526	616803	4.653108	y	4.653
600-67185-19								
			actual	5	SU %R	93.06216	y	93
		TA	**IS ug/L**	**TC area**	**IS area**	**ug/ml**		
		Chrysene	10	56412	616803	0.885234	y	0.885
1	DF					**ug/kg-dry**		
30.02	g purged					39.40474	y	39.4
25.166	moisture							
1	mls extract				**All results match Form 1/EDD?**		y	
		SU	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
MBLK		terp-d14	10	212862	596336	4.405804	y	4.405
MB 600-97445_1-A								
			actual	5	SU %R	88.11609	y	88
		TA	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
LCS		Chrysene	10	559558	566619	9.558441	y	9.558
LCS 600-97445_2-A								
			actual	10	LCS %R	95.58441	y	96
		TA	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
LCSD		Chrysene	10			#DIV/0!		
NA								
			actual	50	LCSD %R	#DIV/0!	NA	NA
					LCS/LCSD RPD	#DIV/0!	NA	NA
		TA	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
MS		Chrysene	10			#DIV/0!	NA	NA
						#DIV/0!		
	parent		actual		MS %R	#DIV/0!	NA	NA
		TA	**IS ug/L**	**TC area**	**IS area**	**ug/L**		
MSD		Chrysene	10			#DIV/0!	NA	NA
						#DIV/0!		
	parent		actual		MSD %R	#DIV/0!	NA	NA
					MS/MSD RPD	#DIV/0!	NA	NA

QAA, L.L.C.
RAW DATA CALCS
METALS

Prep Batch:	**600-97639**
Alyt Batch:	600-98118 (Cd), 600-98194 (Pb)
Samples:	600-67185-17
	600-67185-19

SDL/MQL for all samples calculated correctly? y

	MS2		True	Found	%R	ck?	Reported
ICV	1/25/13 10:01	Cd	0.5	0.5293	105.86	y	106
	1/28/13 8:42	Pb	0.5	0.4863	97.26	y	97
			MDL mg/L	**mg/L**			
ICB	1/25/13 10:05	Cd	0.00073	0.00017		y	<0.00073
	1/28/13 8:47	Pb	0.0029	-0.0003		y	<0.0029
			True	**Found**	**%R**		
CCV21	1/25/13 11:07	Cd	0.5	0.51943	103.886	y	104
CCV19	1/28/13 9:05	Pb	0.5	0.4866	97.32	y	97
			MDL ug/L	**mg/L**			
CCB22	1/25/13 11:11	Cd	0.00073	0.0001		y	<0.00073
CCB21	1/28/13 9:10	Pb	0.0029	-0.0002		y	<0.0029
			True	**Found**	**%R**		
ICSAB 600-98118/8		Cr	0.5	0.48	96	y	96
ICSAB 600-98194/13		Pb	1	0.9464	94.64	y	95

		DF			**mg/L**	**mg/kg**		
SAMPLE	1/25/13 11:26	1	Cd		0.53081	33.331793	y	33.3
600-67185-17	1/28/2013 9:01	10	Pb		5.582	3505.1726	y	3510
	1.03	g/ml digested						
	50	mls digestate			**All results match Form 1/EDD?**			y
	22.694	moisture						

					mg/L	**mg/kg**		
SAMPLE	1/25/13 11:34	1	Cd		0.1099	6.9272821	y	6.93
600-67185-19	1/28/2013 9:03	10	Pb		7.725	4869.2679	y	4870
	1.06	g/ml digested						
	50	mls digestate			**All results match Form 1/EDD?**			y
	25.166	moisture						
	1	DF						

					mg/L	**mg/kg**		
MBLK	1/25/13 10:28		Cd		0.00007	0.0035	y	<0.0256
MB 600-97639/1-A			Pb		0.00101	0.0505	y	<0.105
	1	g/ml digested						
	50	mls digestate						
				True	**Found**	**%R**		
LCS			Cd	103	1.0608	1.0299029		103
LCSSRM 600-97639/2-A			Pb	76.9	0.75777	0.9853966		98.5
				True	**Found**	**%R**		
LCSD			Cd			#DIV/0!	NA	NA
			Pb			#DIV/0!	NA	NA

				RPD	-200	NA	NA
				RPD	-200	NA	NA
	Parent		**True**	**Found**	**%R**		
MS	0.653	Cd	24.75247525	24.31237624	95.582	y	96
600-67185-12 MS	152.8	Pb	49.5049505	222.1336634	140.15	y	140
			True	**Found**	**%R**		
MSD	0.653	Cd	24.50980392	24.56715686	97.567861	y	98
600-67185-12 MS	152.8	Pb	49.01960784	220.9313725	139.08495	y	139
				RPD	1.0424839	y	1
				RPD	-0.5427153	y	1
PDS	0.013	Cd	0.5	0.49365	96.09	y	96
600-67185-12 PDS	3.086	Pb	1	4.1279	104.23	y	104
	Parent			**Found**	**RPD**		
SD	0.013	Cd		<MQL	#VALUE!	y	NC
600-67185-12 SD	3.086	Pb		3.2607	5.6747472	y	5.7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-67185-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 2

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Roberta Russell

Authorized for release by:
6/11/2013 11:03:18 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 13
Method Summary 14
Sample Summary 15
Client Sample Results 16
Definitions/Glossary 24
Surrogate Summary 25
QC Sample Results 26
Default Detection Limits 30
QC Association Summary 31
Lab Chronicle 34
Certification Summary 40
Chain of Custody 41
Receipt Checklists 44

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-67185-1rev

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/11/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TWR	Prep Batch Number(s): 600-97545, 97639- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TWR	Prep Batch Number(s): 600-97545, 97639- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TWR	Prep Batch Number(s): 600-97545, 97639- ICP

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The lead recoveries in samples 67185-8 MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. The lead recoveries in samples 67185-12 MS and MSD as well as 67185-14 MS and the arsenic recovery in sample 67185-8 MSD were above acceptance limits due to matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
3	The lead RPDs between samples 67185-8 MS and MSD as well as 67185-14 MS and MSD were above acceptance limits due to the non-homogenous nature of the samples.
4	The lead RPDs between samples 67185-8 and 67185-8 MD as well as 67185-12 and 67185-12 MD were above acceptance limits due to the non-homogenous nature of the samples.
5	The lead SDLs were elevated in samples 67185-17 and 19 due to the dilution necessary to bring this analyte to within linear dynamic range.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 01/29/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TTD	Prep Batch Number(s): 600-97445-SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		2
		Were MS/MSD RPDs within laboratory QC limits?			X		2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 01/29/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TTD	Prep Batch Number(s): 600-97445-SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 01/29/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-67185
Reviewer Name: TTD	Prep Batch Number(s): 600-97445-SV

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Quality Control Report
Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	10/18/2012
Date Prepared:	10/11/2012
Lab Sample ID:	600-90857_18-a
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	8.35	1.08	16.67
N-Nitrosodimethyalamine	30.71	16.7	11.97	16.67
Aniline	2.98	8.35	2.33	16.67
Phenol	4.24	8.35	7.91	16.67
bis(2-Chloroethyl)ether	1.65	8.35	7.29	16.67
2-Chlorophenol	1.97	8.35	7.54	16.67
1,3-Dichlorobenzene	1.54	8.35	7.19	16.67
1,4-Dichlorobenzene	2.25	8.35	6.84	16.67
1,2-Dichlorobenzene	3.02	8.35	7.29	16.67
Benzyl alcohol	5.83	16.7	9.50	16.67
2-Methylphenol	3.23	8.35	6.07	16.67
m&p-Cresols	2.79	8.35	4.59	33.33
bis (2-Chloroisopropyl) ether	8.84	16.7	13.41	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	6.29	16.67
Hexachloroethane	2.31	8.35	8.47	16.67
Nitrobenzene	2.96	8.35	7.35	16.67
Isophorone	5	8.35	6.03	16.67
2-Nitrophenol	3.89	8.35	3.94	16.67
Benzoic acid	32.76	33.4	220.80	83.33
2,4-Dimethylphenol	8.58	16.7	9.79	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	5.19	16.67
2,4-Dichlorophenol	8.58	16.7	9.48	16.67
1,2,4-Trichlorobenzene	2.1	8.35	7.92	16.67
Naphthalene	1.35	8.35	6.35	16.67
4-Chloroaniline	5.82	8.35	3.69	16.67
Hexachlorobutadiene	1.92	8.35	5.91	16.67
4-Chloro-3-methylphenol	15.58	16.7	8.00	16.67
2-Methylnaphthalene	2.74	8.35	5.53	16.67
1-Methylnaphthalene	1.57	8.35	6.53	16.67
Hexachlorocyclopentadiene	4.61	8.35	14.08	16.67
2,4,6-Trichlorophenol	2.68	8.35	5.54	16.67
2,4,5-Trichlorophenol	10.01	16.7	8.68	16.67
2-Chloronaphthalene	1.21	8.35	6.26	16.67
2-Nitroaniline	4.89	8.35	4.10	16.67
Dimethylphthalate	4.89	8.35	5.80	16.67
1,4 Dinitrobenzene	16.67	8.35	14.23	16.67
1,3- Dinitorbenzene	2.96	8.35	13.00	16.67
1,2-Dinitrobenzene	16.67	8.35	4.73	16.67
Acenaphthylene	5	8.35	6.86	16.67

2,6-Dinitrotoluene	2.95	8.35	8.78	16.67
3-Nitroaniline	7.15	8.35	3.09	16.67
Acenapthene	1.44	8.35	6.03	16.67
Dibenzofuran	1.78	8.35	6.15	16.67
2,4-Dinitrotoluene	3.61	8.35	6.10	16.67
2,3,4,6-Tetrachlorophenol	16.67	16.7	15.95	16.67
Diethylphthalate	8.43	16.7	11.50	16.67
4-Chlorophenyl-phenylether	1.8	8.35	6.79	16.67
Fluorene	2.36	8.35	5.57	16.67
4-Nitroaniline	11.15	16.7	5.63	16.67
4,6-Dinitro-2-Methylphenol	4.98	16.7	15.38	16.67
N-Nitrosodiphenylamine	1.89	8.35	5.94	16.67
Diphenylamine	1.94	8.35	4.69	16.67
1,2-Diphenylhydrazine	1.62	8.35	5.61	16.67
Azobenzene	1.85	8.35	5.14	16.67
4-Bromophenyl-phenylether	2.84	8.35	6.26	16.67
Hexachlorobenzene	1.52	8.35	6.89	16.67
Phenanthrene	4.95	8.35	6.76	16.67
Anthracene	1.28	8.35	6.66	16.67
Carbazole	3.12	8.35	6.16	16.67
Di-n-butylphthalate	2.59	8.35	6.08	16.67
Fluoranthene	3.11	8.35	6.58	16.67
Pyrene	1.83	8.35	7.09	16.67
Butylbenzylphthalate	6.19	16.7	9.35	66.68
3,3'-Dichlorobenzidene	10.16	16.7	6.12	16.67
Benzo(a)anthracene	1.38	8.35	6.93	16.67
bis(2-Ethylhexl)phthalate	5.37	16.7	10.49	66.68
Chrysene	1.02	8.35	10.06	16.67
Di-n-octylphthalate	1.9	8.35	3.61	66.68
Benzo(b)fluoranthene	1.72	8.35	3.95	16.67
Benzo(k)fluoranthene	1.49	8.35	8.45	16.67
Benzo(a)pyrene	1.61	8.35	5.20	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	14.82	16.67
Dibenz(a,h)anthracene	3.63	8.35	2.38	16.67
Benzo(g,h,i)perylene	5.07	16.7	12.37	16.67

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-67185-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-67185-1

Comments
The report was revised on 02/14/13 to make some changes to the metals forms and the moisture RPDs and again on 06/11/13 to include arsenic in the metals section of the report.

Receipt
The samples were received on 1/16/2013 11:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

Except:

The following sample(s) was received at the laboratory without a sample collection time documented on the chain-of-custody: SCC-14 (600-67185-25). As a result, a sample collection time consistent with the time written on the sample bottle was used.

GC/MS Semi VOA
Due to a software limitation, the Calibration date and time on the raw data for the ICAL (batch 95896, ID No. 1864)) is referencing a non-routine curve performed previously. As we are unable to clear the calibration since this method is used for many analytes, the Cal Date is referencing 04-Oct-12 when it should be 20-Dec-12. This applies to the samples and QC raw data also.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-67185-12 DU), (600-67185-12 MS), (600-67185-12 MSD), (600-67185-14 DU), (600-67185-14 MS), (600-67185-14 MSD), SCC-1 (600-67185-16), SCC-10 (600-67185-20), SCC-11 (600-67185-21), SCC-12 (600-67185-22), SCC-13 (600-67185-23), SCC-14 (600-67185-25), SCC-15 (600-67185-24), SCC-3 (600-67185-17), SCC-4 (600-67185-12), SCC-5 (600-67185-13), SCC-6 (600-67185-18), SCC-7 (600-67185-14), SCC-8 (600-67185-19), SCC-9 (600-67185-15).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-67185-1	ECO-1	Solid	01/15/13 11:19	01/16/13 11:09
600-67185-2	ECO-2	Solid	01/15/13 11:29	01/16/13 11:09
600-67185-3	ECO-5	Solid	01/15/13 11:45	01/16/13 11:09
600-67185-4	ECO-6	Solid	01/15/13 11:51	01/16/13 11:09
600-67185-5	ECO-3	Solid	01/15/13 12:07	01/16/13 11:09
600-67185-6	ECO-4	Solid	01/15/13 12:16	01/16/13 11:09
600-67185-7	ECO-7	Solid	01/15/13 12:25	01/16/13 11:09
600-67185-8	ECO-10	Solid	01/15/13 12:33	01/16/13 11:09
600-67185-9	ECO-8	Solid	01/15/13 12:15	01/16/13 11:09
600-67185-10	ECO-9	Solid	01/15/13 12:22	01/16/13 11:09
600-67185-11	SCC-2	Solid	01/15/13 12:53	01/16/13 11:09
600-67185-12	SCC-4	Solid	01/15/13 13:01	01/16/13 11:09
600-67185-13	SCC-5	Solid	01/15/13 13:17	01/16/13 11:09
600-67185-14	SCC-7	Solid	01/15/13 13:23	01/16/13 11:09
600-67185-15	SCC-9	Solid	01/15/13 13:20	01/16/13 11:09
600-67185-16	SCC-1	Solid	01/15/13 14:26	01/16/13 11:09
600-67185-17	SCC-3	Solid	01/15/13 14:32	01/16/13 11:09
600-67185-18	SCC-6	Solid	01/15/13 14:55	01/16/13 11:09
600-67185-19	SCC-8	Solid	01/15/13 15:01	01/16/13 11:09
600-67185-20	SCC-10	Solid	01/15/13 15:15	01/16/13 11:09
600-67185-21	SCC-11	Solid	01/15/13 15:21	01/16/13 11:09
600-67185-22	SCC-12	Solid	01/15/13 15:28	01/16/13 11:09
600-67185-23	SCC-13	Solid	01/15/13 15:34	01/16/13 11:09
600-67185-24	SCC-15	Solid	01/15/13 15:29	01/16/13 11:09
600-67185-25	SCC-14	Solid	01/15/13 15:35	01/16/13 11:09

Client Sample ID: ECO-1

Lab Sample ID: 600-67185-1
Date Collected: 01/15/13 11:19
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.85		0.323	0.0331	mg/Kg	☼	01/17/13 10:37	01/28/13 10:54	1
Lead	431		0.645	0.135	mg/Kg	☼	01/17/13 10:37	01/28/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	78		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-2

Lab Sample ID: 600-67185-2
Date Collected: 01/15/13 11:29
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 81.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.19		0.305	0.0312	mg/Kg	☼	01/17/13 10:37	01/28/13 10:56	1
Lead	396		0.609	0.128	mg/Kg	☼	01/17/13 10:37	01/28/13 10:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	81		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-5

Lab Sample ID: 600-67185-3
Date Collected: 01/15/13 11:45
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.62		0.307	0.0315	mg/Kg	☼	01/17/13 10:37	01/28/13 10:59	1
Lead	221		0.614	0.129	mg/Kg	☼	01/17/13 10:37	01/28/13 10:59	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	77		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-6

Lab Sample ID: 600-67185-4
Date Collected: 01/15/13 11:51
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.92		0.324	0.0333	mg/Kg	☼	01/17/13 10:37	01/28/13 11:01	1
Lead	1030		0.649	0.136	mg/Kg	☼	01/17/13 10:37	01/28/13 11:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	75		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-3

Lab Sample ID: 600-67185-5
Date Collected: 01/15/13 12:07
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	10.1		0.315	0.0323	mg/Kg	☼	01/17/13 10:37	01/28/13 11:04	1
Lead	1740		0.630	0.132	mg/Kg	☼	01/17/13 10:37	01/28/13 11:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	74		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-4

Lab Sample ID: 600-67185-6
Date Collected: 01/15/13 12:16
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.97		0.315	0.0323	mg/Kg	☼	01/17/13 10:37	01/28/13 11:06	1
Lead	373		0.630	0.132	mg/Kg	☼	01/17/13 10:37	01/28/13 11:06	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	77		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-7

Lab Sample ID: 600-67185-7
Date Collected: 01/15/13 12:25
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 70.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	14.6		0.352	0.0361	mg/Kg	☼	01/17/13 10:37	01/28/13 11:09	1
Lead	2340		0.705	0.148	mg/Kg	☼	01/17/13 10:37	01/28/13 11:09	1
Arsenic	18.1		1.41	0.307	mg/Kg	☼	01/17/13 10:37	01/28/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	70		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-10

Lab Sample ID: 600-67185-8
Date Collected: 01/15/13 12:33
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 81.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.30		0.297	0.0305	mg/Kg	☼	01/17/13 10:37	01/28/13 11:11	1
Lead	345		0.594	0.125	mg/Kg	☼	01/17/13 10:37	01/28/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	82		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-8

Lab Sample ID: 600-67185-9
Date Collected: 01/15/13 12:15
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.61		0.321	0.0329	mg/Kg	☼	01/17/13 10:37	01/28/13 11:28	1
Lead	600		0.642	0.135	mg/Kg	☼	01/17/13 10:37	01/28/13 11:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	75		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: ECO-9

Lab Sample ID: 600-67185-10
Date Collected: 01/15/13 12:22
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 72.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	12.6		0.328	0.0336	mg/Kg	☼	01/17/13 10:37	01/28/13 11:30	1
Lead	2050		0.656	0.137	mg/Kg	☼	01/17/13 10:37	01/28/13 11:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	73		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-2

Lab Sample ID: 600-67185-11
Date Collected: 01/15/13 12:53
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 72.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.897		0.320	0.0329	mg/Kg	☼	01/17/13 10:37	01/28/13 11:33	1
Lead	99.4		0.641	0.134	mg/Kg	☼	01/17/13 10:37	01/28/13 11:33	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	73		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-4

Lab Sample ID: 600-67185-12
Date Collected: 01/15/13 13:01
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 76.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.851		0.322	0.0330	mg/Kg	☼	01/18/13 09:43	01/25/13 10:36	1
Lead	199		0.644	0.135	mg/Kg	☼	01/18/13 09:43	01/25/13 10:36	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	77		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-5
Lab Sample ID: 600-67185-13
Date Collected: 01/15/13 13:17
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.51		0.336	0.0345	mg/Kg	☼	01/18/13 09:43	01/25/13 10:51	1
Lead	443		0.672	0.141	mg/Kg	☼	01/18/13 09:43	01/25/13 10:51	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	74		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-7
Lab Sample ID: 600-67185-14
Date Collected: 01/15/13 13:23
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.681		0.312	0.0320	mg/Kg	☼	01/18/13 09:43	01/25/13 10:55	1
Lead	186		0.624	0.131	mg/Kg	☼	01/18/13 09:43	01/25/13 10:55	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	77		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-9
Lab Sample ID: 600-67185-15
Date Collected: 01/15/13 13:20
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.36		0.322	0.0330	mg/Kg	☼	01/18/13 09:43	01/25/13 11:18	1
Lead	149		0.644	0.135	mg/Kg	☼	01/18/13 09:43	01/25/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	73		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-1
Lab Sample ID: 600-67185-16
Date Collected: 01/15/13 14:26
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.21		0.332	0.0341	mg/Kg	☼	01/18/13 09:43	01/25/13 11:22	1
Lead	188		0.665	0.139	mg/Kg	☼	01/18/13 09:43	01/25/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	74		1.0	1.0	%			01/16/13 16:03	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Client Sample ID: SCC-3

Lab Sample ID: 600-67185-17

Date Collected: 01/15/13 14:32
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 77.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1.29	U	21.5	1.29	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Anthracene	**2.03**	**J**	21.5	1.65	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Benzo[a]anthracene	**9.03**	**J**	21.5	1.78	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Benzo[b]fluoranthene	**33.3**	**J**	43.0	2.22	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Benzo[k]fluoranthene	**7.19**	**J**	43.0	1.92	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Benzo[g,h,i]perylene	**26.3**		21.5	6.55	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Benzo[a]pyrene	**24.5**		21.5	2.08	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Chrysene	**13.7**	**J**	21.5	1.32	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Dibenz(a,h)anthracene	4.69	U	21.5	4.69	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Fluoranthene	**19.8**	**J**	21.5	4.01	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Fluorene	3.05	U	21.5	3.05	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Indeno[1,2,3-cd]pyrene	**42.7**	**J**	43.0	4.52	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
2-Methylnaphthalene	3.54	U	21.5	3.54	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Phenanthrene	**8.28**	**J**	21.5	6.39	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Pyrene	**15.8**	**J**	21.5	2.36	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
1-Methylnaphthalene	2.03	U	21.5	2.03	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Naphthalene	1.74	U	21.5	1.74	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1
Acenaphthene	1.86	U	21.5	1.86	ug/Kg	☼	01/16/13 17:07	01/17/13 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*62*		*26 - 108*	*01/16/13 17:07*	*01/17/13 20:39*	*1*
2,4,6-Tribromophenol	*87*		*34 - 122*	*01/16/13 17:07*	*01/17/13 20:39*	*1*
2-Fluorobiphenyl	*81*		*51 - 109*	*01/16/13 17:07*	*01/17/13 20:39*	*1*
2-Fluorophenol	*61*		*23 - 108*	*01/16/13 17:07*	*01/17/13 20:39*	*1*
Nitrobenzene-d5	*66*		*34 - 118*	*01/16/13 17:07*	*01/17/13 20:39*	*1*
Terphenyl-d14	*91*		*56 - 123*	*01/16/13 17:07*	*01/17/13 20:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**33.3**		0.314	0.0322	mg/Kg	☼	01/18/13 09:43	01/25/13 11:26	1
Lead	**3510**		6.28	1.32	mg/Kg	☼	01/18/13 09:43	01/28/13 09:01	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23**		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	**77**		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-6

Lab Sample ID: 600-67185-18

Date Collected: 01/15/13 14:55
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1.33	U	22.1	1.33	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Anthracene	1.70	U	22.1	1.70	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Benzo[a]anthracene	**3.31**	**J**	22.1	1.83	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Benzo[b]fluoranthene	**19.4**	**J**	44.2	2.28	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Benzo[k]fluoranthene	**2.18**	**J**	44.2	1.98	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Benzo[g,h,i]perylene	**20.2**	**J**	22.1	6.73	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Benzo[a]pyrene	**19.4**	**J**	22.1	2.14	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1

Client Sample ID: SCC-6

Lab Sample ID: 600-67185-18
Date Collected: 01/15/13 14:55
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**8.51**	**J**	22.1	1.35	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Dibenz(a,h)anthracene	4.82	U	22.1	4.82	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Fluoranthene	**8.90**	**J**	22.1	4.13	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Fluorene	3.13	U	22.1	3.13	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Indeno[1,2,3-cd]pyrene	4.65	U	44.2	4.65	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
2-Methylnaphthalene	3.64	U	22.1	3.64	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Phenanthrene	6.57	U	22.1	6.57	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Pyrene	**7.90**	**J**	22.1	2.43	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
1-Methylnaphthalene	2.08	U	22.1	2.08	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Naphthalene	1.79	U	22.1	1.79	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1
Acenaphthene	1.91	U	22.1	1.91	ug/Kg	☼	01/16/13 17:07	01/17/13 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*61*		*26 - 108*	*01/16/13 17:07*	*01/17/13 21:06*	*1*
2,4,6-Tribromophenol	*97*		*34 - 122*	*01/16/13 17:07*	*01/17/13 21:06*	*1*
2-Fluorobiphenyl	*75*		*51 - 109*	*01/16/13 17:07*	*01/17/13 21:06*	*1*
2-Fluorophenol	*55*		*23 - 108*	*01/16/13 17:07*	*01/17/13 21:06*	*1*
Nitrobenzene-d5	*69*		*34 - 118*	*01/16/13 17:07*	*01/17/13 21:06*	*1*
Terphenyl-d14	*88*		*56 - 123*	*01/16/13 17:07*	*01/17/13 21:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**1.04**		0.329	0.0337	mg/Kg	☼	01/18/13 09:43	01/25/13 11:30	1
Lead	**200**		0.658	0.138	mg/Kg	☼	01/18/13 09:43	01/25/13 11:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25**		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	**75**		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-8

Lab Sample ID: 600-67185-19
Date Collected: 01/15/13 15:01
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1.34	U	22.3	1.34	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Anthracene	**5.02**	**J**	22.3	1.71	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Benzo[a]anthracene	**16.9**	**J**	22.3	1.84	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Benzo[b]fluoranthene	**54.2**		44.5	2.30	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Benzo[k]fluoranthene	**16.1**	**J**	44.5	1.99	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Benzo[g,h,i]perylene	**33.6**		22.3	6.77	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Benzo[a]pyrene	**32.3**		22.3	2.15	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Chrysene	**39.4**		22.3	1.36	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Dibenz(a,h)anthracene	**38.6**		22.3	4.85	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Fluoranthene	**23.9**		22.3	4.15	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Fluorene	3.15	U	22.3	3.15	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Indeno[1,2,3-cd]pyrene	**49.5**		44.5	4.67	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
2-Methylnaphthalene	3.66	U	22.3	3.66	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Phenanthrene	**11.3**	**J**	22.3	6.61	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1

Client Sample ID: SCC-8

Lab Sample ID: 600-67185-19
Date Collected: 01/15/13 15:01
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	22.3		22.3	2.44	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
1-Methylnaphthalene	2.10	U	22.3	2.10	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Naphthalene	1.80	U	22.3	1.80	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1
Acenaphthene	1.92	U	22.3	1.92	ug/Kg	☼	01/16/13 17:07	01/17/13 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*58*		*26 - 108*	*01/16/13 17:07*	*01/17/13 21:33*	*1*
2,4,6-Tribromophenol	*89*		*34 - 122*	*01/16/13 17:07*	*01/17/13 21:33*	*1*
2-Fluorobiphenyl	*72*		*51 - 109*	*01/16/13 17:07*	*01/17/13 21:33*	*1*
2-Fluorophenol	*53*		*23 - 108*	*01/16/13 17:07*	*01/17/13 21:33*	*1*
Nitrobenzene-d5	*61*		*34 - 118*	*01/16/13 17:07*	*01/17/13 21:33*	*1*
Terphenyl-d14	*93*		*56 - 123*	*01/16/13 17:07*	*01/17/13 21:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.93		0.315	0.0323	mg/Kg	☼	01/18/13 09:43	01/25/13 11:34	1
Lead	4870		6.30	1.32	mg/Kg	☼	01/18/13 09:43	01/28/13 09:03	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	75		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-10

Lab Sample ID: 600-67185-20
Date Collected: 01/15/13 15:15
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.55		0.333	0.0341	mg/Kg	☼	01/18/13 09:43	01/25/13 11:37	1
Lead	1510		0.666	0.140	mg/Kg	☼	01/18/13 09:43	01/25/13 11:37	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	74		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-11

Lab Sample ID: 600-67185-21
Date Collected: 01/15/13 15:21
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 80.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	106		0.312	0.0320	mg/Kg	☼	01/18/13 09:43	01/25/13 11:41	1
Lead	788		0.624	0.131	mg/Kg	☼	01/18/13 09:43	01/25/13 11:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	80		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-12

Lab Sample ID: 600-67185-22

Date Collected: 01/15/13 15:28

Matrix: Solid

Date Received: 01/16/13 11:09

Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.44		0.314	0.0322	mg/Kg	☼	01/18/13 09:43	01/25/13 11:45	1
Lead	210		0.627	0.132	mg/Kg	☼	01/18/13 09:43	01/25/13 11:45	1
Arsenic	14.2		1.25	0.273	mg/Kg	☼	01/18/13 09:43	01/25/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	74		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-13

Lab Sample ID: 600-67185-23

Date Collected: 01/15/13 15:34

Matrix: Solid

Date Received: 01/16/13 11:09

Percent Solids: 72.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.253	J	0.330	0.0338	mg/Kg	☼	01/18/13 09:43	01/25/13 11:49	1
Lead	34.6		0.659	0.138	mg/Kg	☼	01/18/13 09:43	01/25/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	72		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-15

Lab Sample ID: 600-67185-24

Date Collected: 01/15/13 15:29

Matrix: Solid

Date Received: 01/16/13 11:09

Percent Solids: 72.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.62		0.338	0.0347	mg/Kg	☼	01/18/13 09:43	01/25/13 12:01	1
Lead	177		0.676	0.142	mg/Kg	☼	01/18/13 09:43	01/25/13 12:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	73		1.0	1.0	%			01/16/13 16:03	1

Client Sample ID: SCC-14

Lab Sample ID: 600-67185-25

Date Collected: 01/15/13 15:35

Matrix: Solid

Date Received: 01/16/13 11:09

Percent Solids: 88.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.158	J	0.265	0.0272	mg/Kg	☼	01/18/13 09:43	01/25/13 12:04	1
Lead	42.7		0.530	0.111	mg/Kg	☼	01/18/13 09:43	01/25/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			01/16/13 16:03	1
Percent Solids	88		1.0	1.0	%			01/16/13 16:03	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		PHL	TBP	FBP	2FP	NBZ	TPH		
Lab Sample ID	Client Sample ID	(26-108)	(34-122)	(51-109)	(23-108)	(34-118)	(56-123)		
600-67185-17	SCC-3	62	87	81	61	66	91		
600-67185-18	SCC-6	61	97	75	55	69	88		
600-67185-19	SCC-8	58	89	72	53	61	93		
LCS 600-97445/2-A	Lab Control Sample	85	107	98	88	91	95		
MB 600-97445/1-A	Method Blank	74	68	78	74	82	88		

Surrogate Legend

PHL = Phenol-d6
TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-97445/1-A
Matrix: Solid
Analysis Batch: 97642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97445

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	1.00	U	16.7	1.00	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Anthracene	1.28	U	16.7	1.28	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Benzo[a]anthracene	1.38	U	16.7	1.38	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Benzo[b]fluoranthene	1.72	U	33.3	1.72	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Benzo[k]fluoranthene	1.49	U	33.3	1.49	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Benzo[g,h,i]perylene	5.07	U	16.7	5.07	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Benzo[a]pyrene	1.61	U	16.7	1.61	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Chrysene	1.02	U	16.7	1.02	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Dibenz(a,h)anthracene	3.63	U	16.7	3.63	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Fluoranthene	3.11	U	16.7	3.11	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Fluorene	2.36	U	16.7	2.36	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Indeno[1,2,3-cd]pyrene	3.50	U	33.3	3.50	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
2-Methylnaphthalene	2.74	U	16.7	2.74	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Phenanthrene	4.95	U	16.7	4.95	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Pyrene	1.83	U	16.7	1.83	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
1-Methylnaphthalene	1.57	U	16.7	1.57	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Naphthalene	1.35	U	16.7	1.35	ug/Kg		01/16/13 09:41	01/17/13 15:47	1
Acenaphthene	1.44	U	16.7	1.44	ug/Kg		01/16/13 09:41	01/17/13 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*74*		*26 - 108*	*01/16/13 09:41*	*01/17/13 15:47*	*1*
2,4,6-Tribromophenol	*68*		*34 - 122*	*01/16/13 09:41*	*01/17/13 15:47*	*1*
2-Fluorobiphenyl	*78*		*51 - 109*	*01/16/13 09:41*	*01/17/13 15:47*	*1*
2-Fluorophenol	*74*		*23 - 108*	*01/16/13 09:41*	*01/17/13 15:47*	*1*
Nitrobenzene-d5	*82*		*34 - 118*	*01/16/13 09:41*	*01/17/13 15:47*	*1*
Terphenyl-d14	*88*		*56 - 123*	*01/16/13 09:41*	*01/17/13 15:47*	*1*

Lab Sample ID: LCS 600-97445/2-A
Matrix: Solid
Analysis Batch: 97642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	333	335.5		ug/Kg		101	51 - 122
Anthracene	333	337.2		ug/Kg		101	52 - 120
Benzo[a]anthracene	333	319.6		ug/Kg		96	49 - 124
Benzo[b]fluoranthene	333	340.2		ug/Kg		102	58 - 130
Benzo[k]fluoranthene	333	312.6		ug/Kg		94	56 - 129
Benzo[g,h,i]perylene	333	420.3		ug/Kg		126	50 - 140
Benzo[a]pyrene	333	326.2		ug/Kg		98	58 - 123
Chrysene	333	318.6		ug/Kg		96	50 - 123
Dibenz(a,h)anthracene	333	390.2		ug/Kg		117	55 - 141
Fluoranthene	333	327.7		ug/Kg		98	56 - 123
Fluorene	333	341.8		ug/Kg		103	52 - 147
Indeno[1,2,3-cd]pyrene	333	313.8		ug/Kg		94	40 - 147
2-Methylnaphthalene	333	290.3		ug/Kg		87	54 - 130
Phenanthrene	333	313.8		ug/Kg		94	55 - 120
Pyrene	333	311.0		ug/Kg		93	48 - 131
1-Methylnaphthalene	333	326.2		ug/Kg		98	44 - 129

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-97445/2-A
Matrix: Solid
Analysis Batch: 97642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97445

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			333	301.4		ug/Kg		90	52 - 117		
Acenaphthene			333	316.2		ug/Kg		95	58 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d6	*85*		*26 - 108*
2,4,6-Tribromophenol	*107*		*34 - 122*
2-Fluorobiphenyl	*98*		*51 - 109*
2-Fluorophenol	*88*		*23 - 108*
Nitrobenzene-d5	*91*		*34 - 118*
Terphenyl-d14	*95*		*56 - 123*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-97545/1-A
Matrix: Solid
Analysis Batch: 98194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97545

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		01/17/13 10:37	01/28/13 10:49	1
Lead	0.105	U	0.500	0.105	mg/Kg		01/17/13 10:37	01/28/13 10:49	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		01/17/13 10:37	01/28/13 10:49	1

Lab Sample ID: LCSSRM 600-97545/2-A
Matrix: Solid
Analysis Batch: 98194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97545

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	102.4		mg/Kg		99.4	83.6 - 115.5		
Lead			76.9	78.17		mg/Kg		101.7	81.3 - 118.7		
Arsenic			168	168.2		mg/Kg		100.1	83.3 - 117.3		

Lab Sample ID: 600-67185-8 MS
Matrix: Solid
Analysis Batch: 98194

Client Sample ID: ECO-10
Prep Type: Total/NA
Prep Batch: 97545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	3.30		30.6	33.76		mg/Kg	☼	100	75 - 125		
Lead	345		61.2	388.8	4	mg/Kg	☼	72	75 - 125		
Arsenic	13.5		61.2	73.61		mg/Kg	☼	98	75 - 125		

Lab Sample ID: 600-67185-8 MSD
Matrix: Solid
Analysis Batch: 98194

Client Sample ID: ECO-10
Prep Type: Total/NA
Prep Batch: 97545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	3.30		28.3	32.99		mg/Kg	☼	105	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-67185-8 MSD — **Client Sample ID: ECO-10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98194 — **Prep Batch: 97545**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	345		56.7	503.4	4 N	mg/Kg	☼	280	75 - 125	26	20
Arsenic	13.5		56.7	87.43	N	mg/Kg	☼	130	75 - 125	17	20

Lab Sample ID: 600-67185-8 DU — **Client Sample ID: ECO-10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98194 — **Prep Batch: 97545**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	3.30		3.612		mg/Kg	☼	9	20
Lead	345		520.1	F	mg/Kg	☼	40	20
Arsenic	13.5		15.54		mg/Kg	☼	14	20

Lab Sample ID: MB 600-97639/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98118 — **Prep Batch: 97639**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		01/18/13 09:43	01/25/13 10:28	1
Lead	0.105	U	0.500	0.105	mg/Kg		01/18/13 09:43	01/25/13 10:28	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		01/18/13 09:43	01/25/13 10:28	1

Lab Sample ID: LCSSRM 600-97639/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98118 — **Prep Batch: 97639**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	106.1		mg/Kg		103.0	83.6 - 115.5
Lead	76.9	75.78		mg/Kg		98.5	81.3 - 118.7
Arsenic	168	171.3		mg/Kg		101.9	83.3 - 117.3

Lab Sample ID: 600-67185-12 MS — **Client Sample ID: SCC-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98118 — **Prep Batch: 97639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.851		32.2	31.65		mg/Kg	☼	96	75 - 125
Lead	199		64.4	289.2	N	mg/Kg	☼	140	75 - 125
Arsenic	8.46		64.4	76.16		mg/Kg	☼	105	75 - 125

Lab Sample ID: 600-67185-12 MSD — **Client Sample ID: SCC-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98118 — **Prep Batch: 97639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.851		31.9	31.98		mg/Kg	☼	98	75 - 125	1	20
Lead	199		63.8	287.6	N	mg/Kg	☼	139	75 - 125	1	20
Arsenic	8.46		63.8	76.57		mg/Kg	☼	107	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-67185-14 MS
Matrix: Solid
Analysis Batch: 98118

Client Sample ID: SCC-7
Prep Type: Total/NA
Prep Batch: 97639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.681		29.8	29.12		mg/Kg	☼	95	75 - 125
Lead	186		59.6	297.2	N	mg/Kg	☼	186	75 - 125
Arsenic	7.93		59.6	67.57		mg/Kg	☼	100	75 - 125

Lab Sample ID: 600-67185-14 MSD
Matrix: Solid
Analysis Batch: 98118

Client Sample ID: SCC-7
Prep Type: Total/NA
Prep Batch: 97639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.681		30.9	30.37		mg/Kg	☼	96	75 - 125	4	20
Lead	186		61.8	232.7	N	mg/Kg	☼	75	75 - 125	24	20
Arsenic	7.93		61.8	71.80		mg/Kg	☼	103	75 - 125	6	20

Lab Sample ID: 600-67185-12 DU
Matrix: Solid
Analysis Batch: 98118

Client Sample ID: SCC-4
Prep Type: Total/NA
Prep Batch: 97639

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.851		0.9542		mg/Kg	☼	11	20
Lead	199		255.5	F	mg/Kg	☼	25	20
Arsenic	8.46		9.448		mg/Kg	☼	11	20

Lab Sample ID: 600-67185-14 DU
Matrix: Solid
Analysis Batch: 98118

Client Sample ID: SCC-7
Prep Type: Total/NA
Prep Batch: 97639

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.681		0.6306		mg/Kg	☼	8	20
Lead	186		185.9		mg/Kg	☼	0.1	20
Arsenic	7.93		8.939		mg/Kg	☼	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-67185-6 DU
Matrix: Solid
Analysis Batch: 97470

Client Sample ID: ECO-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	23		21		%		7	20
Percent Solids	77		79		%		2	20

Lab Sample ID: 600-67185-16 DU
Matrix: Solid
Analysis Batch: 97470

Client Sample ID: SCC-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26		27		%		1	20
Percent Solids	74		73		%		0.4	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1-Methylnaphthalene	16.7	1.57	ug/Kg	8270C LL
2-Methylnaphthalene	16.7	2.74	ug/Kg	8270C LL
Acenaphthene	16.7	1.44	ug/Kg	8270C LL
Acenaphthylene	16.7	1.00	ug/Kg	8270C LL
Anthracene	16.7	1.28	ug/Kg	8270C LL
Benzo[a]anthracene	16.7	1.38	ug/Kg	8270C LL
Benzo[a]pyrene	16.7	1.61	ug/Kg	8270C LL
Benzo[b]fluoranthene	33.3	1.72	ug/Kg	8270C LL
Benzo[g,h,i]perylene	16.7	5.07	ug/Kg	8270C LL
Benzo[k]fluoranthene	33.3	1.49	ug/Kg	8270C LL
Chrysene	16.7	1.02	ug/Kg	8270C LL
Dibenz(a,h)anthracene	16.7	3.63	ug/Kg	8270C LL
Fluoranthene	16.7	3.11	ug/Kg	8270C LL
Fluorene	16.7	2.36	ug/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	33.3	3.50	ug/Kg	8270C LL
Naphthalene	16.7	1.35	ug/Kg	8270C LL
Phenanthrene	16.7	4.95	ug/Kg	8270C LL
Pyrene	16.7	1.83	ug/Kg	8270C LL

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS Semi VOA

Prep Batch: 97445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-17	SCC-3	Total/NA	Solid	3550B	
600-67185-18	SCC-6	Total/NA	Solid	3550B	
600-67185-19	SCC-8	Total/NA	Solid	3550B	
LCS 600-97445/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-97445/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 97642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-17	SCC-3	Total/NA	Solid	8270C LL	97445
600-67185-18	SCC-6	Total/NA	Solid	8270C LL	97445
600-67185-19	SCC-8	Total/NA	Solid	8270C LL	97445
LCS 600-97445/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	97445
MB 600-97445/1-A	Method Blank	Total/NA	Solid	8270C LL	97445

Metals

Prep Batch: 97545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-1	ECO-1	Total/NA	Solid	3050B	
600-67185-2	ECO-2	Total/NA	Solid	3050B	
600-67185-3	ECO-5	Total/NA	Solid	3050B	
600-67185-4	ECO-6	Total/NA	Solid	3050B	
600-67185-5	ECO-3	Total/NA	Solid	3050B	
600-67185-6	ECO-4	Total/NA	Solid	3050B	
600-67185-7	ECO-7	Total/NA	Solid	3050B	
600-67185-8	ECO-10	Total/NA	Solid	3050B	
600-67185-8 DU	ECO-10	Total/NA	Solid	3050B	
600-67185-8 MS	ECO-10	Total/NA	Solid	3050B	
600-67185-8 MSD	ECO-10	Total/NA	Solid	3050B	
600-67185-9	ECO-8	Total/NA	Solid	3050B	
600-67185-10	ECO-9	Total/NA	Solid	3050B	
600-67185-11	SCC-2	Total/NA	Solid	3050B	
LCSSRM 600-97545/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-97545/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 97639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-12	SCC-4	Total/NA	Solid	3050B	
600-67185-12 DU	SCC-4	Total/NA	Solid	3050B	
600-67185-12 MS	SCC-4	Total/NA	Solid	3050B	
600-67185-12 MSD	SCC-4	Total/NA	Solid	3050B	
600-67185-13	SCC-5	Total/NA	Solid	3050B	
600-67185-14	SCC-7	Total/NA	Solid	3050B	
600-67185-14 DU	SCC-7	Total/NA	Solid	3050B	
600-67185-14 MS	SCC-7	Total/NA	Solid	3050B	
600-67185-14 MSD	SCC-7	Total/NA	Solid	3050B	
600-67185-15	SCC-9	Total/NA	Solid	3050B	
600-67185-16	SCC-1	Total/NA	Solid	3050B	
600-67185-17	SCC-3	Total/NA	Solid	3050B	
600-67185-18	SCC-6	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 97639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-19	SCC-8	Total/NA	Solid	3050B	
600-67185-20	SCC-10	Total/NA	Solid	3050B	
600-67185-21	SCC-11	Total/NA	Solid	3050B	
600-67185-22	SCC-12	Total/NA	Solid	3050B	
600-67185-23	SCC-13	Total/NA	Solid	3050B	
600-67185-24	SCC-15	Total/NA	Solid	3050B	
600-67185-25	SCC-14	Total/NA	Solid	3050B	
LCSSRM 600-97639/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-97639/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 98118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-12	SCC-4	Total/NA	Solid	6010B	97639
600-67185-12 DU	SCC-4	Total/NA	Solid	6010B	97639
600-67185-12 MS	SCC-4	Total/NA	Solid	6010B	97639
600-67185-12 MSD	SCC-4	Total/NA	Solid	6010B	97639
600-67185-13	SCC-5	Total/NA	Solid	6010B	97639
600-67185-14	SCC-7	Total/NA	Solid	6010B	97639
600-67185-14 DU	SCC-7	Total/NA	Solid	6010B	97639
600-67185-14 MS	SCC-7	Total/NA	Solid	6010B	97639
600-67185-14 MSD	SCC-7	Total/NA	Solid	6010B	97639
600-67185-15	SCC-9	Total/NA	Solid	6010B	97639
600-67185-16	SCC-1	Total/NA	Solid	6010B	97639
600-67185-17	SCC-3	Total/NA	Solid	6010B	97639
600-67185-18	SCC-6	Total/NA	Solid	6010B	97639
600-67185-19	SCC-8	Total/NA	Solid	6010B	97639
600-67185-20	SCC-10	Total/NA	Solid	6010B	97639
600-67185-21	SCC-11	Total/NA	Solid	6010B	97639
600-67185-22	SCC-12	Total/NA	Solid	6010B	97639
600-67185-23	SCC-13	Total/NA	Solid	6010B	97639
600-67185-24	SCC-15	Total/NA	Solid	6010B	97639
600-67185-25	SCC-14	Total/NA	Solid	6010B	97639
LCSSRM 600-97639/2-A	Lab Control Sample	Total/NA	Solid	6010B	97639
MB 600-97639/1-A	Method Blank	Total/NA	Solid	6010B	97639

Analysis Batch: 98194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-1	ECO-1	Total/NA	Solid	6010B	97545
600-67185-2	ECO-2	Total/NA	Solid	6010B	97545
600-67185-3	ECO-5	Total/NA	Solid	6010B	97545
600-67185-4	ECO-6	Total/NA	Solid	6010B	97545
600-67185-5	ECO-3	Total/NA	Solid	6010B	97545
600-67185-6	ECO-4	Total/NA	Solid	6010B	97545
600-67185-7	ECO-7	Total/NA	Solid	6010B	97545
600-67185-8	ECO-10	Total/NA	Solid	6010B	97545
600-67185-8 DU	ECO-10	Total/NA	Solid	6010B	97545
600-67185-8 MS	ECO-10	Total/NA	Solid	6010B	97545
600-67185-8 MSD	ECO-10	Total/NA	Solid	6010B	97545
600-67185-9	ECO-8	Total/NA	Solid	6010B	97545
600-67185-10	ECO-9	Total/NA	Solid	6010B	97545
600-67185-11	SCC-2	Total/NA	Solid	6010B	97545

Metals (Continued)

Analysis Batch: 98194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-17	SCC-3	Total/NA	Solid	6010B	97639
600-67185-19	SCC-8	Total/NA	Solid	6010B	97639
LCSSRM 600-97545/2-A	Lab Control Sample	Total/NA	Solid	6010B	97545
MB 600-97545/1-A	Method Blank	Total/NA	Solid	6010B	97545

General Chemistry

Analysis Batch: 97470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-67185-1	ECO-1	Total/NA	Solid	Moisture	
600-67185-2	ECO-2	Total/NA	Solid	Moisture	
600-67185-3	ECO-5	Total/NA	Solid	Moisture	
600-67185-4	ECO-6	Total/NA	Solid	Moisture	
600-67185-5	ECO-3	Total/NA	Solid	Moisture	
600-67185-6	ECO-4	Total/NA	Solid	Moisture	
600-67185-6 DU	ECO-4	Total/NA	Solid	Moisture	
600-67185-7	ECO-7	Total/NA	Solid	Moisture	
600-67185-8	ECO-10	Total/NA	Solid	Moisture	
600-67185-9	ECO-8	Total/NA	Solid	Moisture	
600-67185-10	ECO-9	Total/NA	Solid	Moisture	
600-67185-11	SCC-2	Total/NA	Solid	Moisture	
600-67185-12	SCC-4	Total/NA	Solid	Moisture	
600-67185-13	SCC-5	Total/NA	Solid	Moisture	
600-67185-14	SCC-7	Total/NA	Solid	Moisture	
600-67185-15	SCC-9	Total/NA	Solid	Moisture	
600-67185-16	SCC-1	Total/NA	Solid	Moisture	
600-67185-16 DU	SCC-1	Total/NA	Solid	Moisture	
600-67185-17	SCC-3	Total/NA	Solid	Moisture	
600-67185-18	SCC-6	Total/NA	Solid	Moisture	
600-67185-19	SCC-8	Total/NA	Solid	Moisture	
600-67185-20	SCC-10	Total/NA	Solid	Moisture	
600-67185-21	SCC-11	Total/NA	Solid	Moisture	
600-67185-22	SCC-12	Total/NA	Solid	Moisture	
600-67185-23	SCC-13	Total/NA	Solid	Moisture	
600-67185-24	SCC-15	Total/NA	Solid	Moisture	
600-67185-25	SCC-14	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Client Sample ID: ECO-1

Lab Sample ID: 600-67185-1

Date Collected: 01/15/13 11:19
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 10:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-2

Lab Sample ID: 600-67185-2

Date Collected: 01/15/13 11:29
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 10:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-5

Lab Sample ID: 600-67185-3

Date Collected: 01/15/13 11:45
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 10:59	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-6

Lab Sample ID: 600-67185-4

Date Collected: 01/15/13 11:51
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-3

Lab Sample ID: 600-67185-5

Date Collected: 01/15/13 12:07
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Client Sample ID: ECO-4

Lab Sample ID: 600-67185-6

Date Collected: 01/15/13 12:16
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-7

Lab Sample ID: 600-67185-7

Date Collected: 01/15/13 12:25
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-10

Lab Sample ID: 600-67185-8

Date Collected: 01/15/13 12:33
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-8

Lab Sample ID: 600-67185-9

Date Collected: 01/15/13 12:15
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:28	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: ECO-9

Lab Sample ID: 600-67185-10

Date Collected: 01/15/13 12:22
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:30	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-2

Lab Sample ID: 600-67185-11

Date Collected: 01/15/13 12:53
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97545	01/17/13 10:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	98194	01/28/13 11:33	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-4

Lab Sample ID: 600-67185-12

Date Collected: 01/15/13 13:01
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 10:36	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-5

Lab Sample ID: 600-67185-13

Date Collected: 01/15/13 13:17
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 10:51	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-7

Lab Sample ID: 600-67185-14

Date Collected: 01/15/13 13:23
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 10:55	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-9

Lab Sample ID: 600-67185-15

Date Collected: 01/15/13 13:20
Matrix: Solid
Date Received: 01/16/13 11:09
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:18	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Client Sample ID: SCC-1

Lab Sample ID: 600-67185-16

Date Collected: 01/15/13 14:26
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-3

Lab Sample ID: 600-67185-17

Date Collected: 01/15/13 14:32
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			97445	01/16/13 17:07	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	97642	01/17/13 20:39	JH	TAL HOU
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:26	DCL	TAL HOU
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		10	98194	01/28/13 09:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-6

Lab Sample ID: 600-67185-18

Date Collected: 01/15/13 14:55
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			97445	01/16/13 17:07	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	97642	01/17/13 21:06	JH	TAL HOU
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:30	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-8

Lab Sample ID: 600-67185-19

Date Collected: 01/15/13 15:01
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			97445	01/16/13 17:07	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	97642	01/17/13 21:33	JH	TAL HOU
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:34	DCL	TAL HOU
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		10	98194	01/28/13 09:03	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-10

Lab Sample ID: 600-67185-20

Date Collected: 01/15/13 15:15
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:37	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-11

Lab Sample ID: 600-67185-21

Date Collected: 01/15/13 15:21
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-12

Lab Sample ID: 600-67185-22

Date Collected: 01/15/13 15:28
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-13

Lab Sample ID: 600-67185-23

Date Collected: 01/15/13 15:34
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 11:49	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Client Sample ID: SCC-15

Lab Sample ID: 600-67185-24

Date Collected: 01/15/13 15:29
Date Received: 01/16/13 11:09

Matrix: Solid
Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 12:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Client Sample ID: SCC-14
Date Collected: 01/15/13 15:35
Date Received: 01/16/13 11:09

Lab Sample ID: 600-67185-25
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			97639	01/18/13 09:43	NER	TAL HOU
Total/NA	Analysis	6010B		1	98118	01/25/13 12:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	97470	01/16/13 16:03	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-67185-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

testamerica

6/11/2013

Client Information	Sampler: R. Russell, T. Jennings	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-18287-7084.3
Client Contact: Roberta ~~McClure~~ Russell	Phone: (512)671-3434	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 3
Company: Pastor, Behling & Wheeler LLC				Job #:
Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:			
City: Round Rock	TAT Requested (days):			
State, Zip: TX, 78664				
Phone:	PO #: Purchase Order Requested			
Email: roberta.mcclure@pbwllc.com	WO #:			
Project Name: Exide Recycling Center, Frisco TX Projec	Project #: 60002689			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B- Pb, ~~Cd~~	8270C_LL -PAH	Moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N		
ECO-1	1/15/13	1119		S			X			1	
ECO-2		1129									
ECO-5		1145									
ECO-6		1151									
ECO-3		1207									
ECO-4		1216									
ECO-7		1225									
ECO-10		1233									
ECO-8		1215									
ECO-9		1222									
SCC-2		1253									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Roberta Russell	1/15/13, 1720	PBW			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	01/16/13 1109	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Houston
~~6310 Rotheway~~ Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica

6/11/2013

Client Information	Sampler: RJR, TJ	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-18287-7084.3
Client Contact: Roberta ~~McClure~~ Russell	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 2 of 3
Company: Pastor, Behling & Wheeler LLC		Analysis Requested		Job #:
Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:			Preservation Codes:
City: Round Rock	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TX, 78664				
Phone:	PO #: Purchase Order Requested			Other:
Email: roberta.mcclure@pbwllc.com	WO #:			
Project Name: Exide Recycling Center, Frisco TX Projec	Project #: 60002689			
Site:	SSOW#:			

Sample Identification	Sample ~~Date~~ Time	Sample ~~Time~~ Date	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B- Pb, Cd	8270C_LL-PAH	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SCC-4	1301	1/15/13		S			X			1	
SCC-5	1317									1	
SCC-7	1323									1	
SCC-9	1320									1	
SCC-1	1426									1	
SCC-3	1432							X		2	
SCC-6	1455							X		2	
SCC-8	1501							X		2	
SCC-10	1515									1	
SCC-11	1521									1	
SCC-12	1528									1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert Russell	1/15/13, 1720	PBW			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 01/16/13 1109	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica

6/11/2013

Client Information	Sampler: RJR, TJ	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-18287-7084.3
Client Contact: Roberta McClure	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 15 of 3
Company: Pastor, Behling & Wheeler LLC				Job #:

Address: 2201 Double Creek Dr Suite 4004	Due Date Requested:
City: Round Rock	TAT Requested (days):
State, Zip: TX, 78664	
Phone:	PO #: Purchase Order Requested
Email: roberta.mcclure@pbwllc.com	WO #:
Project Name: Exide Recycling Center, Frisco TX Projec	Project #: 60002689
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B- Pb, or Cd	8270C_LL -PAH	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SCC-13	1/15/13	1534		S						1	
SCC-15		1529									
SCC-14											

RR

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Roberta Russell	Date/Time: 1/15/13, 1720	Company: PBW	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 01/16/13 1169	Company TH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-67185-1

Login Number: 67185

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

SITE:	Exide Class II Landfill Frisco, Texas	
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW) Round Rock, Texas	
EVENT:	Soil Sampling – February 2013	
INTENDED USE:	Affected Property Assessment	
LABORATORY:	TestAmerica – Houston, TX TLAP Certification T104704223 Work Order: 600-69246-1	
TESTS/ METHODS:	Total Metals (As, Cd, and/or Pb)	SW846 3050B/6010B
SAMPLES:	4 soil samples, 1 field MS/MSD pair (see Table 1 for a complete listing)	

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS).

QAA completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRCs) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field QC Blanks
- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory and Field Duplicate Precision

Additionally, QAA used the LRCs to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)
- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for the data usability review are as follows:

- Inorganics: 70-130% spike recovery (and not less than 30% or data is rejected) and ±MQL difference or 30% RPD (for laboratory duplicates) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier (DQ) and bias code to the results for the affected samples in accordance with TRRP-13.

GLOSSARY OF TERMS

The following definitions apply for terms related to analyte reporting limits:

MDL (Method Detection Limit) – the minimum concentration of an analyte that the laboratory can measure and report with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by the laboratory for each analyte in a given reagent matrix (water or soil) generally using the procedures specified in 40 CFR Part 136, Appendix B. It is a measure of the concentration an instrument can detect or 'see' in a given reagent matrix. TRRP-13 requires that the laboratory routinely check the MDL for reasonableness.

SDL (Sample Detection Limit) – the MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and taking into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can detect or 'see' in a given sample. For TRRP, non-detects are reported using the SDL. This term was originally called the SQL (Sample Quantitation Limit) before the TRRP rule revisions effective March 19, 2007.

Unadjusted MQL (Method Quantitation Limit) – the lowest non-zero concentration standard in the laboratory's initial calibration curve calculated using the normal aliquot sizes and final volumes prescribed in the analytical method. The unadjusted MQL is reported by the laboratory for each analyte in a given matrix (water or soil). It is a measure of the concentration an instrument can accurately measure in a typical sample. Per TRRP, the Unadjusted MQLs should be below the Levels of Required Performance (LORPs) for purposes of assessment as well as demonstration of conformance with critical PCLs.

MQL – the unadjusted MQL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and takes into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can accurately measure in a given sample. Analytes with concentrations above the SDL but below the MQL, though present in the sample, may not be accurately measured and are thus flagged as estimated (J).

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody form. A copy of the applicable pages of the laboratory's National Environmental Laboratory Accreditation Program (NELAP) certificate valid during the period in which the laboratory generated the data in this report is included in Attachment 1 to this DUS.

USABILITY SUMMARY

1. Usability of Unqualified Non-Detects – Non-detects are reported at the sample detection limit (SDL) as required per TRRP. Additionally, according to the LRCs, an MDL study was performed for each analyte and the MDLs were checked for reasonableness. The levels of required performance (LORPs) have been established by PBW as 24 mg/kg for Arsenic, 52 mg/kg for Cadmium, and 500 mg/kg for Lead. As needed per TRRP, the Unadjusted MQL stated by the laboratory is at or below the LORP for each of these analytes, and thus the analytical methods are appropriate and the results can be used to demonstrate conformance with critical PCLs.
2. Usability of Qualified Data – No QC deficiencies were noted and the reviewer did not apply any data quality flags. Thus, all results are acceptable for the intended use.

QAA Reviewer:	Taryn G. Scholz	6/14/13
	(Name)	(Date)

QC PARAMETER	QC OUTCOME
Data Completeness	The laboratory data package contains all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contains all sample results in acceptable format. The data package and EDD were revised to add Arsenic to two samples (PMW-19R (0-0.5) and LMW-22 (0-0.5)) per PBW's request.
Chain-of-Custody	Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. Additionally, the information on the custody record is complete and agrees with that in the field notes and laboratory report and the results for all tests are reported as requested on the custody record, except as follows: • The custody record shows two field MS/MSD were collected, one for PMW-20R (0-0.5) and one for LMW-21 (0-0.5)). No results are reported for the MS/MSD for PMW-20R (0-0.5) as it was cancelled based on the number of investigative samples that were held pending results of the first soil interval and never analyzed.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation.
Field Procedures	The soil borings were advanced using a hollow-stem auger. All samples were collected and placed immediately into sterilized jars provided by the laboratory and then into a cooler with ice. Four depth intervals were sampled at each of the four boring locations with all but the first interval marked hold pending analysis of the first interval. None of the held samples required analysis. Two field MS/MSD pairs were collected and one was analyzed with the four investigative samples.
Results Reporting Procedures	The hardcopy analytical results include a Result, MQL (adjusted), and SDL. The EDD includes the MDL, SDL (under the SQL column per previously used terminology) and the MQL, which is not adjusted for sample specific factors. Results are reported in mg/kg with dry-weight correction. Non-detects are reported using the SDL as specified per TRRP. There are no detects between the SDL and MQL. None of the samples required dilution.
MQLs	The LORPs for the samples have been defined by PBW as 24 mg/kg for Arsenic, 52 mg/kg for Cadmium, and 500 mg/kg for Lead. The Unadjusted MQLs are at or below the LORPs for these analytes.
MDLs	According to the LRCs, an MDL study was performed for each analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of detectability check standards (DCSs) as required per TRRP-13. Results for the DCS are included in the laboratory data packages.
Laboratory Blanks	No analytes are reported above the detection limit in the laboratory blanks, which confirms that no contamination was introduced in the laboratory.
Field QC Blanks	No field QC blanks were collected with the samples.
Laboratory Control Spike Recovery	The laboratory prepared one laboratory control spike (LCS) for each analytical batch and the spike solution contained all of the analytes. The LCS recoveries are within the TRRP recommended limits, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects.

QC PARAMETER	QC OUTCOME
Matrix Spike Recovery	The laboratory prepared one Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for each analytical batch and the spike solution contained all of the analytes. Recoveries are reported for MS/MSD prepared using a sample from the site. A MS/MSD pair was prepared using sample LMW-21 (0-05) and the recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on the given sample matrix.
Surrogate Recovery	Surrogates are not used for 6010B metals analysis.
Laboratory Duplicate Precision	The laboratory prepared one Matrix Duplicate (MD) and one Matrix Spike Duplicate (MSD) with each analytical batch. RPDs are reported for all analytes for MD/MSD prepared using a sample from the site. A MD/MSD was prepared using sample LMW-21 (0-05) and the RPDs are within the TRRP recommended criteria, which indicates good precision for the preparation and analysis technique on the given sample matrix.
Field Duplicate Precision	No field duplicates were collected with the samples.
Instrument Tuning	Instrument tuning is not required for 6010B metals analysis.
Instrument Calibration	According to the LRCs, initial and continuing calibration data met method requirements for all reported results, which indicates the instruments were properly calibrated to measure analyte concentrations.
Instrument Performance	According to the LRCs, the serial dilution and ICP interference check samples met method requirements, which indicates that no significant matrix interference exists.
Internal Standards	Internal standards are not used for 6010B metals analysis.

TABLE 1
EXIDE CLASS II LANDFILL
SOIL SAMPLING – FEBRUARY 2013

SAMPLES ANALYZED

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	QC Batch		
					Total Arsenic	Total Cadmium	Total Lead
600-69246-001	PMW-20R (0-0.5)	INV	Solid	2/26/2013	NA	100613	100613
600-69246-005	PMW-19R (0-0.5)	INV	Solid	2/26/2013	100613	100613	100613
600-69246-009	LMW-21 (0-0.5)	INV	Solid	2/27/2013	NA	100613	100613
600-69246-009	LMW-21 (0-0.5)	MD	Solid	2/27/2013	100613	100613	100613
600-69246-009	LMW-21 (0-0.5)	MS	Solid	2/27/2013	100613	100613	100613
600-69246-009	LMW-21 (0-0.5)	MSD	Solid	2/27/2013	100613	100613	100613
600-69246-013	LMW-22 (0-0.5)	INV	Solid	2/27/2013	100613	100613	100613

INV – Investigative
MD – Matrix Duplicate
MS – Matrix Spike
MSD – Matrix Spike Duplicate
NA – Not Analyzed

ATTACHMENT 1

APPLICABLE PAGES OF THE
LABORATORY ACCREDITATION CERTIFICATE

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69246-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/11/2013 11:56:00 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 20

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69246-1rev

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/11/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69246
Reviewer Name: TWR	Prep Batch Number(s): 600-100613- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69246
Reviewer Name: TWR	Prep Batch Number(s): 600-100613- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69246
Reviewer Name: TWR	Prep Batch Number(s): 600-100613- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69246-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69246-1

Comments
The report was revised on 06/11/13 to include arsenic in the metals section of the report per client request.

Receipt
The samples were received on 2/28/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69246-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69246-1	PMW-20R (0-0.5)	Solid	02/26/13 12:45	02/28/13 09:15
600-69246-5	PMW-19R (0-0.5)	Solid	02/26/13 15:15	02/28/13 09:15
600-69246-9	LMW-21 (0-0.5)	Solid	02/27/13 08:05	02/28/13 09:15
600-69246-13	LMW-22 (0-0.5)	Solid	02/27/13 08:00	02/28/13 09:15

Client Sample ID: PMW-20R (0-0.5)

Lab Sample ID: 600-69246-1
Date Collected: 02/26/13 12:45
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 76.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.362		0.301	0.0309	mg/Kg	☼	02/28/13 10:48	03/01/13 09:56	1
Lead	149		0.602	0.126	mg/Kg	☼	02/28/13 10:48	03/01/13 09:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			02/28/13 15:48	1
Percent Solids	77		1.0	1.0	%			02/28/13 15:48	1

Client Sample ID: PMW-19R (0-0.5)

Lab Sample ID: 600-69246-5
Date Collected: 02/26/13 15:15
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 82.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0302	U	0.294	0.0302	mg/Kg	☼	02/28/13 10:48	03/01/13 10:00	1
Lead	20.4		0.588	0.123	mg/Kg	☼	02/28/13 10:48	03/01/13 10:00	1
Arsenic	11.2		1.18	0.256	mg/Kg	☼	02/28/13 10:48	03/01/13 10:00	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			02/28/13 15:48	1
Percent Solids	83		1.0	1.0	%			02/28/13 15:48	1

Client Sample ID: LMW-21 (0-0.5)

Lab Sample ID: 600-69246-9
Date Collected: 02/27/13 08:05
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 76.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.796		0.325	0.0333	mg/Kg	☼	02/28/13 10:48	03/01/13 10:04	1
Lead	209		0.650	0.136	mg/Kg	☼	02/28/13 10:48	03/01/13 10:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			02/28/13 15:48	1
Percent Solids	76		1.0	1.0	%			02/28/13 15:48	1

Client Sample ID: LMW-22 (0-0.5)

Lab Sample ID: 600-69246-13
Date Collected: 02/27/13 08:00
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 75.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.32		0.308	0.0316	mg/Kg	☼	02/28/13 10:48	03/01/13 10:19	1
Lead	282		0.615	0.129	mg/Kg	☼	02/28/13 10:48	03/01/13 10:19	1
Arsenic	22.7		1.23	0.268	mg/Kg	☼	02/28/13 10:48	03/01/13 10:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			02/28/13 15:48	1
Percent Solids	76		1.0	1.0	%			02/28/13 15:48	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-100613/1-A
Matrix: Solid
Analysis Batch: 100688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100613

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		02/28/13 10:48	03/01/13 09:49	1
Lead	0.105	U	0.500	0.105	mg/Kg		02/28/13 10:48	03/01/13 09:49	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		02/28/13 10:48	03/01/13 09:49	1

Lab Sample ID: LCSSRM 600-100613/2-A
Matrix: Solid
Analysis Batch: 100688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100613

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	99.61		mg/Kg		96.7	83.6 - 115.5		
Lead			76.9	72.01		mg/Kg		93.6	81.3 - 118.7		
Arsenic			168	163.5		mg/Kg		97.3	83.3 - 117.3		

Lab Sample ID: 600-69246-9 MS
Matrix: Solid
Analysis Batch: 100688

Client Sample ID: LMW-21 (0-0.5)
Prep Type: Total/NA
Prep Batch: 100613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	0.796		30.2	27.03		mg/Kg	☼	87	75 - 125		
Lead	209		60.4	262.5		mg/Kg	☼	88	75 - 125		
Arsenic	9.41		60.4	62.57		mg/Kg	☼	88	75 - 125		

Lab Sample ID: 600-69246-9 MSD
Matrix: Solid
Analysis Batch: 100688

Client Sample ID: LMW-21 (0-0.5)
Prep Type: Total/NA
Prep Batch: 100613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.796		32.5	28.82		mg/Kg	☼	86	75 - 125	6	20
Lead	209		64.9	265.2		mg/Kg	☼	86	75 - 125	1	20
Arsenic	9.41		64.9	68.39		mg/Kg	☼	91	75 - 125	9	20

Lab Sample ID: 600-69246-9 DU
Matrix: Solid
Analysis Batch: 100688

Client Sample ID: LMW-21 (0-0.5)
Prep Type: Total/NA
Prep Batch: 100613

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	0.796			0.7564		mg/Kg	☼			5	20
Lead	209			182.1		mg/Kg	☼			14	20
Arsenic	9.41			9.481		mg/Kg	☼			0.7	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69246-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69246-1

Metals

Prep Batch: 100613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69246-1	PMW-20R (0-0.5)	Total/NA	Solid	3050B	
600-69246-5	PMW-19R (0-0.5)	Total/NA	Solid	3050B	
600-69246-9	LMW-21 (0-0.5)	Total/NA	Solid	3050B	
600-69246-9 DU	LMW-21 (0-0.5)	Total/NA	Solid	3050B	
600-69246-9 MS	LMW-21 (0-0.5)	Total/NA	Solid	3050B	
600-69246-9 MSD	LMW-21 (0-0.5)	Total/NA	Solid	3050B	
600-69246-13	LMW-22 (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-100613/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-100613/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 100688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69246-1	PMW-20R (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-5	PMW-19R (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-9	LMW-21 (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-9 DU	LMW-21 (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-9 MS	LMW-21 (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-9 MSD	LMW-21 (0-0.5)	Total/NA	Solid	6010B	100613
600-69246-13	LMW-22 (0-0.5)	Total/NA	Solid	6010B	100613
LCSSRM 600-100613/2-A	Lab Control Sample	Total/NA	Solid	6010B	100613
MB 600-100613/1-A	Method Blank	Total/NA	Solid	6010B	100613

General Chemistry

Analysis Batch: 100646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69246-1	PMW-20R (0-0.5)	Total/NA	Solid	Moisture	
600-69246-5	PMW-19R (0-0.5)	Total/NA	Solid	Moisture	
600-69246-9	LMW-21 (0-0.5)	Total/NA	Solid	Moisture	
600-69246-9 MS	LMW-21 (0-0.5)	Total/NA	Solid	Moisture	
600-69246-9 MSD	LMW-21 (0-0.5)	Total/NA	Solid	Moisture	
600-69246-13	LMW-22 (0-0.5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69246-1

Client Sample ID: PMW-20R (0-0.5)

Lab Sample ID: 600-69246-1

Date Collected: 02/26/13 12:45
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100613	02/28/13 10:48	NER	TAL HOU
Total/NA	Analysis	6010B		1	100688	03/01/13 09:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100646	02/28/13 15:48	AS	TAL HOU

Client Sample ID: PMW-19R (0-0.5)

Lab Sample ID: 600-69246-5

Date Collected: 02/26/13 15:15
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100613	02/28/13 10:48	NER	TAL HOU
Total/NA	Analysis	6010B		1	100688	03/01/13 10:00	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100646	02/28/13 15:48	AS	TAL HOU

Client Sample ID: LMW-21 (0-0.5)

Lab Sample ID: 600-69246-9

Date Collected: 02/27/13 08:05
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100613	02/28/13 10:48	NER	TAL HOU
Total/NA	Analysis	6010B		1	100688	03/01/13 10:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100646	02/28/13 15:48	AS	TAL HOU

Client Sample ID: LMW-22 (0-0.5)

Lab Sample ID: 600-69246-13

Date Collected: 02/27/13 08:00
Matrix: Solid
Date Received: 02/28/13 09:15
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100613	02/28/13 10:48	NER	TAL HOU
Total/NA	Analysis	6010B		1	100688	03/01/13 10:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100646	02/28/13 15:48	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
TestAmerica Job ID: 600-69246-1
Project/Site: Exide Recycling Center, Frisco TX Projec

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Eric Pastor	Date: 2/27/13	Chain of Custody Number: 224810
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number: (512) 671-3434	Lab Number	Page 1 of 2
City: Round Rock; State: TX; Zip Code: 78664	Site Contact	Lab Contact	
Project Name and Location (State): Exide, Frisco, TX	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: ~~1755~~ 1856			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: C4S Pb	MS/MSD	Special Instructions/ Conditions of Receipt
PMW-20R(0-0.5)	2/26/13	1245				X							X	X	X	
PMW-20R(0.5-2)		1246														Hold
PMW-20R(2-4)		1247														Hold
PMW-20R(4-5)		1248														Hold
PMW-19R(0-0.5)		1515														
PMW-19R(0.5-2)		1516														Hold
PMW-19R(2-4)		1517														Hold
PMW-19R(4-5)		1518														Hold
LMW-21(0-0.5)	2/27/13	0805													X	
LMW-21(0.5-2)		0807														Hold
LMW-21(2-4)		0808														Hold
LMW-21(4-5)		0810														Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Roberto Russell	2/27/13	1445	1. Received By: [signature]	2/27/13	1445
2. Relinquished By: [signature]	2/27/13	1730	2. Received By		
3. Relinquished By			3. Received By: [signature]	02/28/13	0915

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/11/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Eric Pastor	2/27/13	224811
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. #4004	(512) 671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide, Frisco, TX			
Contract/Purchase Order/Quote No.			
1856			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TFoe	Cd, Pb	MS/MSD	Special Instructions/ Conditions of Receipt
LMW-22 (0-0.5)	2/27/13	0800				X							X	X		
LMW-22 (0.5-2)	↓	0801				↓							↓	↓		Hold
LMW-22 (2-4)		0805														Hold
LMW-22 (4-5)		0809														Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Robert Russell	2/27/13	1445	1. Received By: [signature]	2/27/13	1445
2. Relinquished By: [signature]	2/27/13	1720	2. Received By:		
3. Relinquished By:			3. Received By: [signature]	02/28/13	0915

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/11/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69246-1

Login Number: 69246

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Laboratory Data Package Cover Page

This data package for Laboratory Job Number 1203719 consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ **R1** Field chain-of-custody documentation;
- ☑ **R2** Sample identification cross-reference;
- ☑ **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ **R4** Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ **R5** Test reports/summary forms for blank samples;
- ☑ **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☑ **R10** Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Shelly Connelly	Shelly Connelly	Client Services Manager	03/29/12
Name (Printed)	Signature	Official Title (Printed)	Date

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	LRC Date:	**03/29/12**
Project Name:	**Exide SS**	Laboratory Job Number:	**1203719**
Reviewer Name:	**Leslie Underwood**	Prep Batch Number(s):	**2C27057,2C28053,2C28071,2C28072**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		If required for the project, TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			E001
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PACE Analytical Services, Inc.

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/29/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203719**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C27057,2C28053,2C28071,2C28072**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	**O**	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	**OI**	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/29/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203719**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C27057,2C28053,2C28071,2C28072**

ER# [1]	Description
E001	Matrix Spike Recovery for Lead (3%) was outside acceptance limits (75-125) in 2C27057-MS1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1203719-21	H-4	Solid	03/27/12 11:07	03/27/12 12:00
1203719-22	H-3	Solid	03/27/12 11:17	03/27/12 12:00

Case Narrative

This additional report was prepared at the request of the client to only include samples 1203719-21 thru -22. All samples submitted originally under Pace Work Order 1203719 were reported in their entirety on the report with a Print Date/Time 03/29/12 at 1613. This report revision is in addition to the prior report and is not intended as a replacement.

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Laboratory ID #: 1203719-21
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore — Customer
Sample Description: H-4
Sample Date/Time: 03/27/12 1107

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**70**	0.040	0.2	%	1.00	W3	2C28072	03/28/12 1433	BLF/A	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.00	DB1	2C27057	03/27/12 1705	RLC	
Metals (Total), EPA 6010B										
Cadmium	**ND**	1.05	0.221	mg/kg dry	10.00	M4	2C27057	03/28/12 2035	SPS	R-01
Lead	**120**	1.99	0.42	mg/kg dry	10.00	M4	2C27057	03/28/12 2035	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Laboratory ID #: 1203719-22
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: H-3
Sample Date/Time: 03/27/12 1117

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**71**	0.040	0.2	%	1.00	W3	2C28072	03/28/12 1433	BLF/A	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.00	DB1	2C27057	03/27/12 1705	RLC	
Metals (Total), EPA 6010B										
Cadmium	**1.06**	1.05	0.221	mg/kg dry	10.00	M4	2C27057	03/28/12 2043	SPS	R-01, J
Lead	**154**	1.98	0.42	mg/kg dry	10.00	M4	2C27057	03/28/12 2043	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C28072-BLK1)										
Prepared & Analyzed: 03/28/12 14:33										
% Solids	**ND**	0.040	%							
Duplicate (2C28072-DUP1)										
Prepared & Analyzed: 03/28/12 14:33					**Source: 1203719-12**					
% Solids	**77**	0.040	%		77			0.1	7	
Duplicate (2C28072-DUP2)										
Prepared & Analyzed: 03/28/12 14:33					**Source: 1203719-22**					
% Solids	**70**	0.040	%		71			0.1	7	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C27057-BLK1) Prepared & Analyzed: 03/27/12 10:12										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-							
Cadmium	**ND**	0.07	mg/kg wet							
Lead	**ND**	0.14	mg/kg wet							
Laboratory Control Sample (2C27057-BS1) Prepared & Analyzed: 03/27/12 10:12										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0			
Cadmium	**23.4**	0.07	mg/kg wet	25.0		93	80-120			
Lead	**23.1**	0.14	mg/kg wet	25.0		92	80-120			
Laboratory Control Sample Duplicate (2C27057-BSD1) Prepared & Analyzed: 03/27/12 10:12										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0		0	
Cadmium	**23.5**	0.07	mg/kg wet	25.0		94	80-120	0.4	20	
Lead	**23.0**	0.14	mg/kg wet	25.0		92	80-120	0.3	20	
Matrix Spike (2C27057-MS1) Prepared & Analyzed: 03/27/12 10:12					**Source: 1203670-14**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0			
Cadmium	**32.7**	0.98	mg/kg dry	33.1	0.97	96	75-125			R-01
Lead	**182**	1.85	mg/kg dry	33.1	137	136	75-125			Q-02, R-01
Matrix Spike Duplicate (2C27057-MSD1) Prepared & Analyzed: 03/27/12 10:12					**Source: 1203670-14**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0		0	
Cadmium	**33.2**	0.98	mg/kg dry	33.1	0.97	97	75-125	2	20	R-01
Lead	**162**	1.85	mg/kg dry	33.1	137	76	75-125	12	20	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:31

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

Revised Data Usability Summary
Exide Frisco Recycling Center
March 26-27, 2012 Soil Sampling Event
Pace Analytical DATA PACKAGE 1203719

Pastor, Behling & Wheeler, LLC reviewed one data package from Pace Analytical Services, Inc. for the analysis of soil samples collected on March 26-27, 2012 at the Exide Technologies (Exide) Lake Parcel Area, in Frisco, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and adherence to project objectives. At the time the laboratory data were generated for the project, Pace Analytical was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes and methods of analysis requested on the chain-of-custody documentation.

Intended Use of Data: Affected Property Assessment Report (APAR)

Analyses requested included:

- Method SW6010B – Metals Analysis

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data,
- case narratives, and
- the field notes with respect to field instrument calibrations, filtering procedures, and sampling procedures preservation procedures prior to shipping the samples to the laboratory.

The results of supporting quality control (QC) analyses were summarized in the Laboratory Review Checklists (LRCs), Exception Reports, and case narrative, all of which were included in this review.

Introduction

Twenty-two (22) soil samples were collected and analyzed for cadmium and lead as part of the original laboratory report in March 2012. This revised report is for two of those samples. The associated LRCs, Exception Reports and case narrative were prepared for the larger data set (22 soil samples). This DUS is only for two of those samples and has been revised such that only QC analyses associated with these samples are included. Table B-1 lists the sample identifications cross-referenced to the laboratory identifications for this revised report. Contaminants of concern for the site are cadmium and lead.

Project Objectives

Project QA/QC objectives were established as the laboratory control limits for each analysis.

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Soil analytical results are reported corrected from moisture content. Qualified sample data for the contaminants of concern at the site are listed in Table B-2. Non-detected results (ND) are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (COC). Samples were received in appropriate containers in good condition with the paperwork properly completed. Sample receipt temperatures were within the acceptance criteria. Samples were preserved in the field as specified in SW-846 Table 3-2. Samples were prepared and analyzed within holding times as specified in SW-846 Table 3-2.

Calibrations

The LRC indicates the initial calibration and continuing calibration data met SW-846 method requirements for metals analysis.

Blanks

All method blanks were adequately prepared and all results were reported as non-detected (ND). No field blanks were collected.

Laboratory Control Samples

Laboratory control sample (LCS) recoveries met the laboratory measurement quality objectives of 80-120% recovery.

Matrix Spike/Matrix Spike Duplicates

Matrix Spike recoveries for lead were outside the acceptance limits of 75-125% for the following:

- 2C27057-MS1 (136%) – Recovery of lead in the MS was outside the acceptable range due to interference, large dilutions or a combination of those factors.

The recovery of lead in the LCS(s) was within the acceptable range for all samples and no further action is required.

Field Precision

Field duplicate samples were not collected and as a result field precision cannot be evaluated.

Field Procedures

Samples were collected using documented SOPs.

SUMMARY

The analytical data are usable for the purpose of determining current COC concentrations in the soil at the subject property.

Table B-1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification
H-4	1203719-21
H-3	1203719-22

Table B-2. Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
H-3	Cadmium	J	Analyte detected between MDL and RL
J – Estimated data			

Prepared by: Kate McCarthy, PG Date: September 20, 2012
Revised: February 20, 2013

Laboratory Data Package Cover Page

This data package for Laboratory Job Number 1203765 consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ **R1** Field chain-of-custody documentation;
- ☑ **R2** Sample identification cross-reference;
- ☑ **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ **R4** Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ **R5** Test reports/summary forms for blank samples;
- ☑ **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☑ **R10** Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Shelly Connelly	Shelly Connelly	Client Services Manager	03/30/12
Name (Printed)	Signature	Official Title (Printed)	Date

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	LRC Date:	**03/30/12**
Project Name:	**Exide SS**	Laboratory Job Number:	**1203765**
Reviewer Name:	**Melissa McCullough**	Prep Batch Number(s):	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		If required for the project, TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			E001
		Were MS/MSD RPDs within laboratory QC limits?		X			E002
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PACE Analytical Services, Inc.

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/30/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203765**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	**O**	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	**OI**	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/30/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203765**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

ER# [1]	Description
E001	Matrix Spike Recovery for Lead (45%) was outside acceptance limits (75-125) in 2C28079-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (71%) was outside acceptance limits (75-125) in 2C28079-MSD2 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-11) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Cadmium (46%) was outside acceptance limits (75-125) in 2C29016-MS1 for Cd Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (-30%) was outside acceptance limits (75-125) in 2C29016-MS1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Cadmium (64%) was outside acceptance limits (75-125) in 2C29016-MSD1 for Cd Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (1060%) was outside acceptance limits (75-125) in 2C29016-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (48%) was outside acceptance limits (75-125) in 2C29017-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-31) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (129%) was outside acceptance limits (75-125) in 2C29017-MSD2 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a high bias to the source (1203765-21) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range.
E002	Matrix Spike Duplicate RPD for Cadmium (36%) was above the acceptance limit (20) in 2C29016-MSD1 for Cd Total ICP 6010B - The RPD of this analyte between the MS(s) was outside of the acceptable range. The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for Lead (143%) was above the acceptance limit (20) in 2C29016-MSD1 for Pb Total ICP 6010B - The RPD of this analyte between the MS(s) was outside of the acceptable range. The RPD of this same analyte between the LCS(s) was within the acceptable range.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1203765-01	H-5	Solid	03/27/12 12:50	03/28/12 13:39
1203765-02	G-5	Solid	03/27/12 12:54	03/28/12 13:39
1203765-03	G-6	Solid	03/27/12 12:59	03/28/12 13:39
1203765-04	G-4	Solid	03/27/12 13:20	03/28/12 13:39
1203765-05	F-4	Solid	03/27/12 13:25	03/28/12 13:39
1203765-06	F-5	Solid	03/27/12 13:29	03/28/12 13:39

Case Narrative

This additional report was prepared at the request of the client to only include samples 1203765-01 thru -06. All samples submitted originally under Pace Work Order 1203765 were reported in their entirety on the report with a Print Date/Time 03/30/12 at 12:47. This report revision is in addition to the prior report and is not intended as a replacement.

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-01
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore — Customer
Sample Description: H-5
Sample Date/Time: 03/27/12 1250

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**71**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	52.08	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**1.54**	1.08	0.221	mg/kg dry	10.42	M4	2C28079	03/29/12 1418	SPS	R-01, J
Lead	**147**	2.05	0.42	mg/kg dry	10.42	M4	2C28079	03/29/12 1418	SPS	Q-21, R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-02
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: G-5
Sample Date/Time: 03/27/12 1254

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**66**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.51	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**2.61**	1.14	0.221	mg/kg dry	10.10	M4	2C28079	03/29/12 1513	SPS	J, R-01
Lead	**273**	2.15	0.42	mg/kg dry	10.10	M4	2C28079	03/29/12 1513	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-03
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: G-6
Sample Date/Time: 03/27/12 1259

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**67**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	52.63	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**1.96**	1.16	0.221	mg/kg dry	10.53	M4	2C28079	03/29/12 1520	SPS	J, R-01
Lead	**268**	2.20	0.42	mg/kg dry	10.53	M4	2C28079	03/29/12 1520	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-04
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: G-4
Sample Date/Time: 03/27/12 1320

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**62**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	49.50	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**2.17**	1.19	0.221	mg/kg dry	9.90	M4	2C28079	03/29/12 1527	SPS	J, R-01
Lead	**222**	2.25	0.42	mg/kg dry	9.90	M4	2C28079	03/29/12 1527	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-05
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: F-4
Sample Date/Time: 03/27/12 1325

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**74**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	51.55	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**2.51**	1.03	0.221	mg/kg dry	10.31	M4	2C28079	03/29/12 1534	SPS	J, R-01
Lead	**255**	1.95	0.42	mg/kg dry	10.31	M4	2C28079	03/29/12 1534	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Laboratory ID #: 1203765-06
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: F-5
Sample Date/Time: 03/27/12 1329

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**74**	0.040	0.2	%	1.00	W3	2C29020	03/29/12 1000	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	51.02	DB1	2C28079	03/28/12 1750	RLC	
Metals (Total), EPA 6010B										
Cadmium	**3.51**	1.02	0.221	mg/kg dry	10.20	M4	2C28079	03/29/12 1542	SPS	R-01
Lead	**367**	1.93	0.42	mg/kg dry	10.20	M4	2C28079	03/29/12 1542	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29020-BLK1)										
Prepared & Analyzed: 03/29/12 10:00										
% Solids	**ND**	0.040	%							
Duplicate (2C29020-DUP1)										
Prepared & Analyzed: 03/29/12 10:00					**Source: 1203765-01**					
% Solids	**70**	0.040	%		71			2	7	
Duplicate (2C29020-DUP2)										
Prepared & Analyzed: 03/29/12 10:00					**Source: 1203765-11**					
% Solids	**74**	0.040	%		72			2	7	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C28079-BLK1) Prepared & Analyzed: 03/28/12 17:50										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-							
Cadmium	**ND**	0.07	mg/kg wet							
Lead	**ND**	0.14	mg/kg wet							
Laboratory Control Sample (2C28079-BS1) Prepared & Analyzed: 03/28/12 17:50										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0			
Cadmium	**24.3**	0.07	mg/kg wet	25.0		97	80-120			
Lead	**24.0**	0.14	mg/kg wet	25.0		96	80-120			
Laboratory Control Sample Duplicate (2C28079-BSD1) Prepared & Analyzed: 03/28/12 17:50										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0		0	
Cadmium	**24.6**	0.07	mg/kg wet	25.0		98	80-120	0.9	20	
Lead	**24.3**	0.14	mg/kg wet	25.0		97	80-120	1	20	
Matrix Spike (2C28079-MS1) Prepared & Analyzed: 03/28/12 17:50					**Source: 1203765-01**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0			
Cadmium	**37.3**	0.99	mg/kg dry	33.4	1.54	107	75-125			R-01
Lead	**183**	1.87	mg/kg dry	33.4	147	107	75-125			R-01
Matrix Spike (2C28079-MS2) Prepared & Analyzed: 03/28/12 17:50					**Source: 1203765-11**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0			
Cadmium	**35.1**	0.99	mg/kg dry	33.4	1.03	102	75-125			R-01
Lead	**165**	1.87	mg/kg dry	33.4	123	125	75-125			R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C28079-MSD1) Prepared & Analyzed: 03/28/12 17:50					**Source: 1203765-01**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0		0	
Cadmium	**33.1**	1.05	mg/kg dry	35.5	1.54	89	75-125	12	20	R-01
Lead	**163**	1.99	mg/kg dry	35.5	147	45	75-125	11	20	Q-02, R-01
Matrix Spike Duplicate (2C28079-MSD2) Prepared & Analyzed: 03/28/12 17:50					**Source: 1203765-11**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0		0	
Cadmium	**34.9**	1.00	mg/kg dry	33.7	1.03	100	75-125	0.6	20	R-01
Lead	**146**	1.89	mg/kg dry	33.7	123	71	75-125	12	20	Q-02, R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 02/20/13 16:37

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

Revised Data Usability Summary
Exide Frisco Recycling Center
March 27-28, 2012 Soil Sampling Event
Pace Analytical DATA PACKAGE 1203765

Pastor, Behling & Wheeler, LLC reviewed one data package from Pace Analytical Services, Inc. for the analysis of Soil samples collected on March 27-28, 2012 at the Exide Technologies (Exide) Lake Parcel Area, in Frisco, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and adherence to project objectives. At the time the laboratory data were generated for the project, Pace Analytical was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes and methods of analysis requested on the chain-of-custody documentation.

Intended Use of Data: Affected Property Assessment Report (APAR)

Analyses requested included:

- Method SW6010B – Metals Analysis

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data,* (RG-366/TRRP-13) and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data,
- case narratives, and
- the field notes with respect to field instrument calibrations, filtering procedures, and sampling procedures preservation procedures prior to shipping the samples to the laboratory.

The results of supporting quality control (QC) analyses were summarized in the Laboratory Review Checklists (LRCs), Exception Reports and case narrative, all of which were included in this review.

Introduction

Thirty-seven (37) soil samples were collected and analyzed for cadmium and lead as part of the original laboratory report in March 2012. This revised report is for six of those samples. The associated LRCs, Exception Reports and case narrative were prepared for the larger data set (37 soil samples). This DUS is only for six of those samples and has been revised such that only QC analyses associated with these samples are included. Table B-1 lists the sample identifications cross-referenced to the laboratory identifications. Contaminants of concern for the site are cadmium and lead.

Samples 1203765-31 through 1203765-40 were removed from the laboratory report as a result of the samples being collected from a property not included in the investigation.

Project Objectives

Project QA/QC objectives were established as the laboratory control limits for each analysis.

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Soil analytical results are reported corrected from moisture content. Qualified sample data for the contaminants of concern at the site are listed in Table B-2. Non-detected results (ND) are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (COC). Samples were received in appropriate containers in good condition with the paperwork properly completed. Sample receipt temperatures were within the acceptance criteria. Samples were preserved in the field as specified in SW-846 Table 3-2. Samples were prepared and analyzed within holding times as specified in SW-846 Table 3-2.

Calibrations

The LRC indicates the initial calibration and continuing calibration data met SW-846 method requirements for metals analysis.

Blanks

All method blanks were adequately prepared and all results were reported as non-detected (ND). No field blanks were collected.

Laboratory Control Samples

Laboratory control sample (LCS) recoveries met the laboratory measurement quality objectives of 80-120% recovery.

Matrix Spike/Matrix Spike Duplicates

Matrix Spike recoveries were outside the acceptance limits of 75-125% for the following:

- 2C28079-MSD1 (45%) – Recovery of lead in the MS was outside the acceptable range due to interference, large dilutions or a combination of those factors indicating a low bias for the result presented for the source sample (1203765-01).
- 2C28079-MSD2 (71%) – Recovery of lead in the MS was outside the acceptable range due to interference, large dilutions or a combination of those factors indicating a low bias for the result presented for the source sample (1203765-11).

As a result of the low spike recovery in MSD1, the lead result in sample H-5 may be biased low and is qualified as an estimated value with a potential low bias (Table B-2). Because the recovery of lead in the LCS(s) was within the acceptable range for all samples, no further action is required and no other samples are flagged.

NOTE – The associated LRCs, Exception Reports and case narrative for Laboratory Job 1203765 were prepared for a larger data set of 37 soil samples. This DUS is only for six of those samples (listed in Table B-1) and has been revised such that only QC analyses associated with these samples are included.

Field Precision

Field duplicate samples were not collected and as a result field precision cannot be evaluated.

Field Procedures

Samples were collected using documented SOPs.

SUMMARY

The analytical data are usable for the purpose of determining current COC concentrations in the soil at the subject property.

Table B-1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification
H-5	1203765-01
G-5	1203765-02
G-6	1203765-03
G-4	1203765-04
F-4	1203765-05
F-5	1203765-06

Table B-2. Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
F-4	Cadmium	J	Analyte detected between MDL and RL
G-4	Cadmium	J	Analyte detected between MDL and RL
G-5	Cadmium	J	Analyte detected between MDL and RL
G-6	Cadmium	J	Analyte detected between MDL and RL
H-5	Lead	JL	MSD recovery less than 75%
H-5	Cadmium	J	Analyte detected between MDL and RL
J – Estimated data JL – Estimated value with potential low bias			

Prepared by: Kate McCarthy, PG Date: September 20, 2012
Revised: February 20, 2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70673-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Mr. Tim Nickels

Authorized for release by:
4/8/2013 10:56:13 AM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 19

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70673-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/08/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/01/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70673
Reviewer Name: TWR	Prep Batch Number(s): 600-102925- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?					
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/01/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70673
Reviewer Name: TWR	Prep Batch Number(s): 600-102925- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			2
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/01/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70673
Reviewer Name: TWR	Prep Batch Number(s): 600-102925- ICP

ER #[1]	DESCRIPTION
1	The cadmium and lead recoveries in sample 70673-2 MS and the lead recovery in sample 70673-2 MSD were below acceptance limits due to matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
2	The lead recovery in sample 70673-2 PDS was below acceptance limits due to matrix interference. The lead percent difference between samples 70673-2 and 70673-2 SD was above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-70673-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70673-1

Comments
No additional comments.

Receipt
The samples were received on 3/28/2013 8:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70673-1	H-5 (1ft)	Solid	03/27/13 13:55	03/28/13 08:35
600-70673-2	G-5 (1ft)	Solid	03/27/13 14:10	03/28/13 08:35
600-70673-3	G-4 (1ft)	Solid	03/27/13 14:25	03/28/13 08:35
600-70673-4	H-4 (1ft)	Solid	03/27/13 14:35	03/28/13 08:35

Client Sample ID: H-5 (1ft)

Lab Sample ID: 600-70673-1

Date Collected: 03/27/13 13:55
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0325	U	0.317	0.0325	mg/Kg	☼	04/01/13 08:53	04/01/13 14:06	1
Lead	**15.9**		0.635	0.133	mg/Kg	☼	04/01/13 08:53	04/01/13 14:06	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26**		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	**74**		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: G-5 (1ft)

Lab Sample ID: 600-70673-2

Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0346	U	0.337	0.0346	mg/Kg	☼	04/01/13 08:53	04/01/13 14:10	1
Lead	**13.9**		0.674	0.141	mg/Kg	☼	04/01/13 08:53	04/01/13 14:10	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26**		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	**74**		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: G-4 (1ft)

Lab Sample ID: 600-70673-3

Date Collected: 03/27/13 14:25
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0325	U	0.317	0.0325	mg/Kg	☼	04/01/13 08:53	04/01/13 14:26	1
Lead	**18.2**		0.634	0.133	mg/Kg	☼	04/01/13 08:53	04/01/13 14:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26**		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	**74**		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: H-4 (1ft)

Lab Sample ID: 600-70673-4

Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 71.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0782**	**J**	0.329	0.0337	mg/Kg	☼	04/01/13 08:53	04/01/13 14:29	1
Lead	**17.9**		0.657	0.138	mg/Kg	☼	04/01/13 08:53	04/01/13 14:29	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28**		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	**72**		1.0	1.0	%			03/28/13 15:44	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-102925/1-A
Matrix: Solid
Analysis Batch: 102947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102925

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/01/13 08:53	04/01/13 13:59	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/01/13 08:53	04/01/13 13:59	1

Lab Sample ID: LCSSRM 600-102925/2-A
Matrix: Solid
Analysis Batch: 102947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102925

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	95.93		mg/Kg		93.1	83.6 - 115.5
Lead	76.9	67.60		mg/Kg		87.9	81.3 - 118.7

Lab Sample ID: 600-70673-2 MS
Matrix: Solid
Analysis Batch: 102947

Client Sample ID: G-5 (1ft)
Prep Type: Total/NA
Prep Batch: 102925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0346	U	31.2	22.72	N	mg/Kg	☼	73	75 - 125
Lead	13.9		62.4	57.51	N	mg/Kg	☼	70	75 - 125

Lab Sample ID: 600-70673-2 MSD
Matrix: Solid
Analysis Batch: 102947

Client Sample ID: G-5 (1ft)
Prep Type: Total/NA
Prep Batch: 102925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.0346	U	33.7	25.25		mg/Kg	☼	75	75 - 125	11	20
Lead	13.9		67.4	62.26	N	mg/Kg	☼	72	75 - 125	8	20

Lab Sample ID: 600-70673-2 DU
Matrix: Solid
Analysis Batch: 102947

Client Sample ID: G-5 (1ft)
Prep Type: Total/NA
Prep Batch: 102925

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.0346	U	0.0320	U	mg/Kg	☼	NC	20
Lead	13.9		14.03		mg/Kg	☼	1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 102925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70673-1	H-5 (1ft)	Total/NA	Solid	3050B	
600-70673-2	G-5 (1ft)	Total/NA	Solid	3050B	
600-70673-2 DU	G-5 (1ft)	Total/NA	Solid	3050B	
600-70673-2 MS	G-5 (1ft)	Total/NA	Solid	3050B	
600-70673-2 MSD	G-5 (1ft)	Total/NA	Solid	3050B	
600-70673-3	G-4 (1ft)	Total/NA	Solid	3050B	
600-70673-4	H-4 (1ft)	Total/NA	Solid	3050B	
LCSSRM 600-102925/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-102925/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 102947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70673-1	H-5 (1ft)	Total/NA	Solid	6010B	102925
600-70673-2	G-5 (1ft)	Total/NA	Solid	6010B	102925
600-70673-2 DU	G-5 (1ft)	Total/NA	Solid	6010B	102925
600-70673-2 MS	G-5 (1ft)	Total/NA	Solid	6010B	102925
600-70673-2 MSD	G-5 (1ft)	Total/NA	Solid	6010B	102925
600-70673-3	G-4 (1ft)	Total/NA	Solid	6010B	102925
600-70673-4	H-4 (1ft)	Total/NA	Solid	6010B	102925
LCSSRM 600-102925/2-A	Lab Control Sample	Total/NA	Solid	6010B	102925
MB 600-102925/1-A	Method Blank	Total/NA	Solid	6010B	102925

General Chemistry

Analysis Batch: 102778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70673-1	H-5 (1ft)	Total/NA	Solid	Moisture	
600-70673-2	G-5 (1ft)	Total/NA	Solid	Moisture	
600-70673-3	G-4 (1ft)	Total/NA	Solid	Moisture	
600-70673-4	H-4 (1ft)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Client Sample ID: H-5 (1ft)

Lab Sample ID: 600-70673-1

Date Collected: 03/27/13 13:55
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102925	04/01/13 08:53	NER	TAL HOU
Total/NA	Analysis	6010B		1	102947	04/01/13 14:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: G-5 (1ft)

Lab Sample ID: 600-70673-2

Date Collected: 03/27/13 14:10
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102925	04/01/13 08:53	NER	TAL HOU
Total/NA	Analysis	6010B		1	102947	04/01/13 14:10	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: G-4 (1ft)

Lab Sample ID: 600-70673-3

Date Collected: 03/27/13 14:25
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102925	04/01/13 08:53	NER	TAL HOU
Total/NA	Analysis	6010B		1	102947	04/01/13 14:26	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: H-4 (1ft)

Lab Sample ID: 600-70673-4

Date Collected: 03/27/13 14:35
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102925	04/01/13 08:53	NER	TAL HOU
Total/NA	Analysis	6010B		1	102947	04/01/13 14:29	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70673-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: PBW	Project Manager: Tim Nickels	Date: 3/27/13	Chain of Custody Number: 225416
Address: 2201 Double Creek Dr Ste 4004	Telephone Number (Area Code)/Fax Number: (512) 671-3434	Lab Number:	Page 1 of 1
City: Round Rock; State: TX; Zip Code: 78664	Site Contact: T. Jennings	Lab Contact:	
Project Name and Location (State): Exide Landfill Expansion	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 1819B			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Total lead	Total Cadmium
H-5(1)	3/27/13	1355			X	X	1						X	X
G-5(1)	3/27/13	1410				X	1						X	X
G-4(1)	3/27/13	1425				X	1						X	X
H-4(1)	3/27/13	1435				X	1						X	X

Special Instructions/ Conditions of Receipt

600-70673 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date: 3/27/13	Time: 1520	1. Received By	Date: 3/27/13	Time: 1520
2. Relinquished By	Date: 3/27/13	Time: 1730	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date: 03/28/13	Time: 0835

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70673-1

Login Number: 70673

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

February 13, 2013

Tim Nickels
Pastor, Behling & Wheeler, LLC
2201 Double Creek Dr.
Suite 4004
Round Rock, TX 78664

RE: Pace Project 752985
Project ID: 18198/Lake Parcel/LF Expansion

Dear Tim Nickels:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2013. Results reported herin conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lauren Carriker
lauren.carriker@pacelabs.com

Laboratory Certifications
Pace Dallas : Texas Certification #: T104704232-12-4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

02/13/2013 09:25:11

Sample Cross Reference

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Pace Project No.: 752985

Client: Pastor, Behling, and Wheeler LLC.
Project ID: 18198/Lake Parcel/LF Expansion

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
H5-2	752985001	Solid	02/07/2013 13:50	02/07/2013 16:29
H4-2	752985002	Solid	02/07/2013 14:00	02/07/2013 16:29
G4-2	752985003	Solid	02/07/2013 14:10	02/07/2013 16:29

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Pace Project No.: 752985

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS or MSD recoveries were within QC limits.

Surrogate:

All surrogate recoveries were within QC limits.

Appendix A
LABORATORY DATA PACKAGE COVER PAGE

This data package is for Job No. 752985 and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

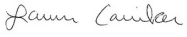
- [X] R1 - Field chain-of-custody documentation;
- [X] R2 - Sample identification cross-reference;
- [X] R3 - Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. Dilution factors,
  - c. Preparation methods,
  - d. Cleanup methods, and
  - e. If required for the project, tentatively identified compounds (TICs).
- [X] R4 - Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- [X] R5 - Test reports/summary forms for blank samples;
- [X] R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
  - a. LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- [X] R7 - Test reports/summary forms for matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a. Samples associated with the MS/MSD clearly identified,
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences, and
  - e. The laboratory's MS/MSD QC limits.
- [X] R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and,
  - c. The laboratory's QC limits for analytical duplicated.
- [X] R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte and
- [X] R10 - Other problems or anomalies.

  The exception Report for each "No" or "Not Reviewed (NR) " item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accredidation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [X] TCEQ on 02/24/2012

Any findings affecting the data in this laboratory data package are noted in the Exception Reports herin. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Printed)	Date
Lauren Carriker		Project Manager	02/13/2013

Sample Results

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Client: Pastor, Behling, and Wheeler LLC.

Client ID: H5-2 **Project ID:** 18198/Lake Parcel/LF
Lab ID: 752985001 **Moisture:** 25.3% **Pace Project No.:** 752985
Collected: 02/07/2013 13:50 **Received:** 02/07/2013 16:29 **Matrix:** Solid

Parameters	DF	Results	Qual	Units	MQL	SDL	Analysis Date	Prep Date	Batch	Instr.
6010 Metals, Total	Analytical Method: EPA 6010				Preparation Method: EPA 3050					
Cadmium	1	1.4		mg/kg	0.13	0.026	02/08/2013 12:43	02/08/2013 07:36	2643	75ICP1
Lead	1	154		mg/kg	0.26	0.066	02/08/2013 12:43	02/08/2013 07:36	2643	75ICP1

Sample Results

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Client: Pastor, Behling, and Wheeler LLC.

Client ID: H4-2 **Project ID:** 18198/Lake Parcel/LF
Lab ID: 752985002 **Moisture:** 25.8% **Pace Project No.:** 752985
Collected: 02/07/2013 14:00 **Received:** 02/07/2013 16:29 **Matrix:** Solid

Parameters	DF	Results	Qual	Units	MQL	SDL	Analysis Date	Prep Date	Batch	Instr.
6010 Metals, Total	Analytical Method: EPA 6010				Preparation Method: EPA 3050					
Cadmium	1	1.3		mg/kg	0.13	0.027	02/08/2013 12:50	02/08/2013 07:36	2643	75ICP1
Lead	1	145		mg/kg	0.27	0.067	02/08/2013 12:50	02/08/2013 07:36	2643	75ICP1

Sample Results

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Client: Pastor, Behling, and Wheeler LLC.

Client ID: G4-2 **Project ID:** 18198/Lake Parcel/LF
Lab ID: 752985003 **Moisture:** 27.6% **Pace Project No.:** 752985
Collected: 02/07/2013 14:10 **Received:** 02/07/2013 16:29 **Matrix:** Solid

Parameters	DF	Results	Qual	Units	MQL	SDL	Analysis Date	Prep Date	Batch	Instr.
6010 Metals, Total	Analytical Method: EPA 6010				Preparation Method: EPA 3050					
Cadmium	1	1.5		mg/kg	0.14	0.029	02/08/2013 12:56	02/08/2013 07:36	2643	75ICP1
Lead	1	166		mg/kg	0.29	0.072	02/08/2013 12:56	02/08/2013 07:36	2643	75ICP1

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Batch: 2643
Method: EPA 6010
Prep Method: EPA 3050

Pace Project No.: 752985
Instrument ID: 75ICP1

Blank: 10494

Parameters	Dilution	Quals	Result	Units	MQL	SDL	Analysis Date	Prep Date
Cadmium	1	U	<0.020	mg/kg	0.10	0.020	02/08/2013 12:19	02/08/2013 07:36
Lead	1	U	<0.050	mg/kg	0.20	0.050	02/08/2013 12:19	02/08/2013 07:36

Laboratory Control Sample: 10495

Parameters	Spk Amt	LCS Result	Units	LCS %Rec	% Rec Limits	LCS Quals
Cadmium	50	42.6	mg/kg	85	80-120	
Lead	50	44.1	mg/kg	88	80-120	

Matrix Spike: 10496 **Matrix Spike Duplicate:** 10497

Original for Sample: Project sample H5-2

Parameters	Original Result	MS Spk	MSD Spk	MS Result	MSD Result	Units	MS %Rec	MSD %Rec	% Rec Limits	RPD	Max RPD	Quals
Cadmium	1.4	65	66.3	58.2	58.4	mg/kg	87	86	75-125	0	20	
Lead	154	65	66.3	202	207	mg/kg	75	81	75-125	2	20	

Unadjusted MQL Summary

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Pace Project No.: 752985

Analyte	Method	Unadjusted MQL	Reporting Units
Cadmium	EPA 6010	0.10	mg/kg
Lead	EPA 6010	0.20	mg/kg

Pace Analytical Services, Inc.
400 W. Bethany Drive, Suite 190
Allen, TX 75013
(972) 727-1123

Pace Project No.: 752985

DEFINITIONS

DF	Dilution Factor
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
U	Indicates the compound was analyzed for, but not detected.
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
RPD	Relative Percent Difference
TNI	The Nelace Institute

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TRRP LABORATORY REVIEW CHECKLIST

Laboratory	Pace Analytical Services, Inc.	**LRC Date:**	02/13/2013
Project Name:	18198/Lake Parcel/LF Expansion	**Laboratory Job Number:**	752985
Reviewer Name:	Lauren Carriker	**Prep Batch Number(s):**	See exception report.

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices, and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory in the laboratory data package submitted in the TRRP-required reports(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;
2. O = Organic analyses; I = inorganic analysises (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

TRRP LABORATORY REVIEW CHECKLIST

Laboratory	Pace Analytical Services, Inc.	**LRC Date:**	02/13/2013
Project Name:	18198/Lake Parcel/LF Expansion	**Laboratory Job Number:**	752985
Reviewer Name:	Lauren Carriker	**Prep Batch Number(s):**	See exception report.

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were precent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	**O**	**Mass spectral tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**Internal standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	**OI**	**Raw data (NELAC Section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**Tentatively identified compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory in the laboratory data package submitted in the TRRP-required reports(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;
2. O = Organic analyses; I = inorganic analysises (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

February 08, 2013

Tim Nickels
Pastor, Behling & Wheeler, LLC
2201 Double Creek Dr.
Suite 4004
Round Rock, TX 78664

RE: Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Dear Tim Nickels:
Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lauren Carriker

lauren.carriker@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Dallas Certification IDs
400 West Bethany Dr Suite 190 75013 Allen TX 75013
Texas Certification #: T104704232-12-4
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2012-080
Louisiana Certification #: 02007

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Lab ID	Sample ID	Matrix	Date Collected	Date Received
752985001	**H5-2**	Solid	02/07/13 13:50	02/07/13 16:29
752985002	**H4-2**	Solid	02/07/13 14:00	02/07/13 16:29
752985003	**G4-2**	Solid	02/07/13 14:10	02/07/13 16:29

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Lab ID	Sample ID	Method	Analysts	Analytes Reported
752985001	**H5-2**	EPA 6010	SPS	2
		ASTM D2974-87	BLF	1
752985002	**H4-2**	EPA 6010	SPS	2
		ASTM D2974-87	BLF	1
752985003	**G4-2**	EPA 6010	SPS	2
		ASTM D2974-87	BLF	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Sample: H5-2 **Lab ID: 752985001** Collected: 02/07/13 13:50 Received: 02/07/13 16:29 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	**1.4**	mg/kg	0.13	0.026	1	02/08/13 07:36	02/08/13 12:43	7440-43-9	
Lead	**154**	mg/kg	0.26	0.066	1	02/08/13 07:36	02/08/13 12:43	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.3**	%	0.50	0.50	1		02/08/13 09:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Sample: H4-2 **Lab ID: 752985002** Collected: 02/07/13 14:00 Received: 02/07/13 16:29 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	**1.3**	mg/kg	0.13	0.027	1	02/08/13 07:36	02/08/13 12:50	7440-43-9	
Lead	**145**	mg/kg	0.27	0.067	1	02/08/13 07:36	02/08/13 12:50	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.8**	%	0.50	0.50	1		02/08/13 09:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Sample: G4-2 **Lab ID: 752985003** Collected: 02/07/13 14:10 Received: 02/07/13 16:29 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	**1.5**	mg/kg	0.14	0.029	1	02/08/13 07:36	02/08/13 12:56	7440-43-9	
Lead	**166**	mg/kg	0.29	0.072	1	02/08/13 07:36	02/08/13 12:56	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**27.6**	%	0.50	0.50	1		02/08/13 09:00		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

QC Batch: MPRP/1171 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 752985001, 752985002, 752985003

METHOD BLANK: 10494 Matrix: Solid
Associated Lab Samples: 752985001, 752985002, 752985003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	02/08/13 12:19	
Lead	mg/kg	ND	0.20	02/08/13 12:19	

LABORATORY CONTROL SAMPLE: 10495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	42.6	85	80-120	
Lead	mg/kg	50	44.1	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 10496 10497

Parameter	Units	752985001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/kg	1.4	65	66.3	58.2	58.4	87	86	75-125	0	20	
Lead	mg/kg	154	65	66.3	202	207	75	81	75-125	2	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

QC Batch: PMST/1052
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 752985001, 752985002, 752985003

SAMPLE DUPLICATE: 10492

Parameter	Units	752985001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.3	26.4	4	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18198/Lake Parcel/LF Expansion
Pace Project No.: 752985

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
752985001	**H5-2**	EPA 3050	MPRP/1171	EPA 6010	ICP/1124
752985002	**H4-2**	EPA 3050	MPRP/1171	EPA 6010	ICP/1124
752985003	**G4-2**	EPA 3050	MPRP/1171	EPA 6010	ICP/1124
752985001	**H5-2**	ASTM D2974-87	PMST/1052		
752985002	**H4-2**	ASTM D2974-87	PMST/1052		
752985003	**G4-2**	ASTM D2974-87	PMST/1052		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

PASTOR, BEHLING & WHEELER, LLC

1471

COC No.

☐ Round Rock Office
2201 Double Creek Drive, Suite 4004
Round Rock, TX 78664
Tel: (512)671-3434
Fax: (512)671-3446

☐ Port Lavaca Office
131 N. Virginia, Suite B
Port Lavaca, TX 77979
Tel: (361)553-6442
Fax: (361)553-6449

☐ Texarkana Office
2407 Moores Lane
Texarkana, TX 75503
Tel: (903)794-0625
Fax: (903)794-0626

PROJECT NO.: 1819B PROJECT NAME: LakeParcel CLF Expansion PAGE: 1 OF: 1

SAMPLER (Signature): _____ PROJECT MANAGER: Tim Nickels DATE: 2/7/13

METHOD OF SHIPMENT: Hand Deliver CARRIER/WAYBILL NO.: NA DESTINATION: Pace - ERMS - Allen, TX

SAMPLES														ANALYSIS REQUEST							
		Sample Collection			Preservation					Containers				Constituents/Methods				Handling			Remarks
Lab No.	Field Sample Identification	DATE	TIME	Matrix*	HCl	HNO_3	H_2SO_4	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.		Lead (Total)	Cadmium (Total)			HOLD	RUSH	STANDARD	
752985001	H5-2	2/7/13	1350	SO				X		4oz	G	1		X	X				X		24 Hr TAT
752985002	H4-2	2/7/13	1400	SO				X		4oz	G	1		X	X						"
752985003	G4-2	2/7/13	1410	SO				X		4oz	G	1		X	X						"

TOTAL NUMBER OF CONTAINERS

LABORATORY COMMENTS/CONDITION OF SAMPLES

Cooler Temp: Ice 3.6°C

RELINQUISHED BY:			DATE	TIME	RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY			SIGNATURE	PRINTED NAME	COMPANY
[signature]	Tim Jennings	RBW	2/7/13	1600	Donaliza Rapa	Donaliza Rapa	Falcon Express
Donaliza Rapa	Donaliza Rapa	Falcon Xpress	07 feb 2013	1629	[signature]	Kathy Weems	Pace LABORATORY

*KEY: Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered

DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

752985

Falcon X-Press We Deliver

P.O. BOX 940303
PLANO, TX 75094-0303
(972) 881-7577

Fed Ex Temp 3.8°C

NOTARY SERVICE AVAILABLE

No.

SHIPPER
NAME PSS
ADDRESS 7471 South 5th Street SUITE
CITY Frisco, TEXAS 75034
REFERENCE NO.

CONSIGNEE
NAME PACE Analytical Services
ADDRESS 400 West Bethany Drive SUITE
CITY Allen, TEXAS 75013
ATTN:

DATE 07 Feb 2013

Falcon Charges	Type of Delivery
☐ PREPAID	☐ X-Press
☐ COLLECT	☐ 2 HOUR
☐ ROUND TRIP	☐ 4 HOUR
☐ NIGHT-WEEKEND	☐ NEXT DAY

NO. PCS.	DESCRIPTION AND REMARKS	WEIGHT	CHARGES	
3	Bottles of samples		WEIGHT CHARGE	
			WAITING TIME CHG	
			DELIVERY CHARGE	
			TOTAL CHARGES	

WAITING TIME

NOT RESPONSIBLE FOR FREIGHT CLAIMS AFTER 72 HRS. NOT RESPONSIBLE FOR CONCEALED DAMAGE, DUE AND PAYABLE PLANO, COLLIN COUNTY, TEXAS

$50 DECLARED VALUE UNLESS SPECIFIED HERE $

DRIVER NAME & NO. 1401 M27A | DRIVER NAME & NO. 14PM | TIME OF DEL. 1600/1629

RECEIVED BY X Kathy Wiemann

RECEIVED BY X Kathy Wiemann

Sample Condition Upon Receipt

Pace Analytical

Client Name: PBdW Pace #: 752985

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ LSO ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no ☐ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used (IR-01) IR-02 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 3.8°C **Ice Visible in Sample Containers:** ☒ yes ☐ no

(Corrected, if applicable)

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: CSS 2-7-13

Sample Receiving		
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	5.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	6.
Containers Intact:	☒Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, O&G	☐Yes ☐No ☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl If applicable see below.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	pH strip lot #: _____ Potassium Iodide strip lot #: _____ Lead Acetate strip lot #:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	10.
Trip Blank Present:	☐Yes ☐No ☒N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	12.
Sufficient Volume:	☒Yes ☐No ☐N/A	13.
Correct Containers Used:	☒Yes ☐No ☐N/A	14.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JMC **Date:** 2/8/13

Sample Container Count

Pace Analytical™ www.pacelabs.com

COC PAGE 1 of 1
COC ID# 1471

Pace Project # 752985

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP20	SP5T	WGFU	WGKU			Comments
1												1				
2												1				
3												1				
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag
WGKU	8oz wide jar upreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

Data Usability Summary
Exide Frisco Recycling Center
February 7, 2013 Soil Sampling Event
Pace Analytical DATA PACKAGE 752985

Pastor, Behling & Wheeler, LLC reviewed one data package from Pace Analytical for the analysis of the Lake Parcel Area soil samples collected February 7, 2013 at the Exide Recycling Center facility, in Frisco, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and adherence to project objectives. At the time the laboratory data were generated for the project, Pace Analytical was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes and methods of analysis requested on the chain-of-custody documentation.

Intended Use of Data: Affected Property Assessment Report (APAR)

Analyses requested included:

- Method SW6010 – Metals Analysis

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data,* (RG-366/TRRP-13) and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data,
- case narratives, and
- the field notes with respect to field instrument calibrations, filtering procedures, sampling procedures preservation procedures prior to shipping the samples to the laboratory.

The results of supporting quality control (QC) analyses were summarized in the Exception Reports and case narrative, all of which were included in this review.

Introduction

Three (3) soil samples were collected and analyzed for cadmium and lead. Table 1 lists the sample identifications cross-referenced to the laboratory identifications.

Project Objectives

Project QA/QC objectives were established as the laboratory control limits for each analysis.

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Soil analytical results are reported corrected for moisture. None of the data from the sampling event were qualified. Non-detected results are reported as less than the value of the sample reporting limit.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (COC). Samples were received in appropriate containers in good condition with the paperwork filled out properly. Sample receipt temperatures (3.8°C) were within the acceptance criteria of 4±2°C. Samples were preserved in the field as specified in SW-846 Table 2-40(B). Samples were prepared and analyzed within holding times as specified in SW-846 2-40(B).

Calibrations

No calibration data was supplied with the laboratory report.

Blanks

Method blanks were adequately prepared and all results were reported as non-detected (ND) in laboratory blank.

Laboratory Control Samples

Laboratory control sample (LCS) recoveries were within laboratory QC acceptance limits for all.

Matrix Spike/Matrix Spike Duplicates

MS/MSD precision and accuracy results were within the project-defined QC acceptance criteria for metals.

Field Precision

Field duplicate samples were not collected for this sampling event.

SUMMARY

The analytical data are usable for the purpose of determining cadmium and lead concentrations in the soil at the site.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification
H5-2	752985001
H4-2	752985002
G4-2	752985003

Prepared by: Kate McCarthy, PG Date: February 11, 2013

Data Usability Summary
Exide Frisco Recycling Center
March 27, 2013 Soil Sampling Event
TestAmerica Laboratories DATA PACKAGE 600-70673-1

Pastor, Behling & Wheeler, LLC reviewed one data package from TestAmerica Laboratories in Houston, Texas for the analysis of the soil samples collected March 27, 2013 at the Exide former Frisco Recycling Center, Frisco, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and adherence to project objectives. At the time the laboratory data were generated for the project, TestAmerica Laboratories was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes and methods of analysis requested on the chain-of-custody documentation.

Intended Use of Data: Affected Property Assessment Report (APAR).

Analyses requested included:

- Method SW6010B – Metals (ICP)

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data,* (RG-366/TRRP-13) and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data,
- case narratives, and
- the field notes with respect to field instrument calibrations, sampling procedures, preservation procedures prior to shipping the samples to the laboratory.

The results of supporting quality control (QC) analyses were summarized in the Laboratory Review Checklist (LRC), Exception Reports, and Case Narrative, all of which were included in this review.

Introduction

Four (4) soil samples were collected and analyzed for cadmium and lead. Table 1 lists the sample identifications cross-referenced to the laboratory identifications.

Project Objectives

Project QA/QC objectives were established as the TRRP-13 recommended control limits:

- For inorganic analytes: percent recoveries between 70% and 130%, RPD within 30%.

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Soil analytical results for lead and cadmium are reported corrected for moisture content. Qualified data are summarized in Table 2.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (COC). Samples were received in appropriate containers in good condition. Paperwork was filled out properly. Sample receipt temperatures were within the acceptance criteria. Samples were preserved in the field as specified in SW-846 Table 3-2. Samples were prepared and analyzed within holding times as specified in SW-846 Table 3-2.

Calibrations

The LRC indicates the initial calibration and continuing calibration data met SW-846 method requirements for metals.

Blanks

Field blanks were not collected in the field. The laboratory method blank was within project control limits.

Laboratory Control Samples

Laboratory control sample (LCS) recoveries were within the project control limits.

Matrix Spike/Matrix Spike Duplicates

MS/MSD precision and accuracy results were within the project-defined QC acceptance criteria for lead. PDS recovery data were requested from the lab (Attachment 1); PDS recoveries were also within project-defined QC acceptance criteria for lead.

Laboratory Certification

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody.

Field Precision

Field duplicate samples were not collected.

Field Procedures

Samples were collected using documented SOPs.

SUMMARY

The analytical data are usable for the purpose of determining current lead and cadmium concentrations in soil.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification
H-5 (1 ft)	600-70673-1
G-5 (1 ft)	600-70673-2
G-4 (1 ft)	600-70673-3
H-4 (1 ft)	600-70673-4

Table 2. Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
H-4 (1 ft)	Cadmium	J	Estimated value; analyte detected between the MQL and SDL.

Prepared by: Roberta Russell Date: June 24, 2013

Attachment 1
Additional Laboratory QC Information

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70673-1

Method Blank - Batch: 600-102925

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-102925/1-A	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/01/2013 1359	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-102925

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	04/01/2013 1403	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	95.93	93.1	83.6 - 115.5	
Lead	76.9	67.60	87.9	81.3 - 118.7	

Post Digestion Spike - Batch: 600-102925

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70673-2	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/01/2013 1543	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.0346	U	33.7	25.75	76	75 - 125	
Lead	13.9		67.4	62.87	73	75 - 125	W

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70673-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-102925

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70673-2	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	04/01/2013 1418			Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

MSD Lab Sample ID:	600-70673-2	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/01/2013 1422			Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	73	75	75 - 125	11	20	N	
Lead	70	72	75 - 125	8	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-102925

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70673-2	Units:	mg/Kg	MSD Lab Sample ID:	600-70673-2
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/01/2013 1418			Analysis Date:	04/01/2013 1422
Prep Date:	04/01/2013 0853			Prep Date:	04/01/2013 0853
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD	
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual	
Cadmium	0.0346	U	31.2	33.7	22.72	N	25.25	
Lead	13.9		62.4	67.4	57.51	N	62.26	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70673-1

Duplicate - Batch: 600-102925

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70673-2	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	04/01/2013 1414	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.0346	U	0.0320	NC	20	U
Lead	13.9		14.03	1	20	

Serial Dilution - Batch: 600-102925

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70673-2	Analysis Batch:	600-102947	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-102925	Lab File ID:	T040113
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/01/2013 1547	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/01/2013 0853				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.0346	U	0.173	NC	10	U
Lead	13.9		17.85	29	10	*

SITE:	Exide Former Operating Plant Frisco, Texas	
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW) Round Rock, Texas	
EVENT:	APAR Soil Sampling – March 2013	
INTENDED USE:	Affected Property Assessment Report (APAR)	
LABORATORY:	TestAmerica – Houston, TX TLAP Certification T104704223 Work Orders: 600-69726-1, 600-69726-2, 600-69726-3, 600-69726-4, 600-69726-5, 600-70064-1, 600-70064-2, 600-70064-3, 600-70675-1, and 600-70675-2	
TESTS/ METHODS:	Total Metals (As, Cd, Pb, and/or Se)	SW846 3050B/6010B
	Volatile Organic Compounds (VOC)	SW846 5030B/8260B (40 analytes)
	Polynuclear Aromatic Hydrocarbons (PAH)	SW846 3550B/8270C LL (18 analytes)
	Sulfate	SW846 9056
	Total Petroleum Hydrocarbons (TPH)	TX 1005 (4 C-ranges)
	Total Petroleum Hydrocarbons (TPH) – Fractionated	TX 1006 (14 C-ranges)
SAMPLES:	46 soil samples from 42 locations/depths, 3 field duplicates, 1 field MS/MSD pair, 6 laboratory MS/MSD pairs, 1 equipment rinsate blank (see Table 1 for a complete listing)	

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS).

QAA completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field QC Blanks
- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory and Field Duplicate Precision

Additionally, QAA used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)

- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for the data usability review are as follows:

- Inorganics: 70-130% spike recovery (and not less than 30% or data is rejected) and ±MQL difference or 30% RPD (for laboratory duplicates) as recommended in TRRP-13
- Organics: 60-140% spike recovery (and not less than 10% or data is rejected) and ±MQL difference or 40% RPD (for laboratory duplicates) as recommended in TRRP-13
- Soil Samples: ± 3x MQL difference (if either result is less than 5x MQL) or 50% RPD (for field duplicates) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier (DQ) and bias code to the results for the affected samples in accordance with TRRP-13. A list of all qualified results and definitions of the qualifier and bias codes are given in Table 2.

GLOSSARY OF TERMS

The following definitions apply for terms related to analyte reporting limits:

MDL (Method Detection Limit) – the minimum concentration of an analyte that the laboratory can measure and report with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by the laboratory for each analyte in a given reagent matrix (water or soil) generally using the procedures specified in 40 CFR Part 136, Appendix B. It is a measure of the concentration an instrument can detect or 'see' in a given reagent matrix. TRRP-13 requires that the laboratory routinely check the MDL for reasonableness.

SDL (Sample Detection Limit) – the MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and taking into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can detect or 'see' in a given sample. For TRRP, non-detects are reported using the SDL. This term was originally called the SQL (Sample Quantitation Limit) before the TRRP rule revisions effective March 19, 2007.

Unadjusted MQL (Method Quantitation Limit) – the lowest non-zero concentration standard in the laboratory's initial calibration curve calculated using the normal aliquot sizes and final volumes prescribed in the analytical method. The unadjusted MQL is reported by the laboratory for each analyte in a given matrix (water or soil). It is a measure of the concentration an instrument can accurately measure in a typical sample. Per TRRP, the Unadjusted MQLs should be below the Levels of Required Performance (LORPs) for purposes of assessment as well as demonstration of conformance with critical Protective Concentration Levels (PCLs).

MQL – the unadjusted MQL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and takes into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can accurately measure in a given sample. Analytes with concentrations above the SDL but below the MQL, though present in the sample, may not be accurately measured and are thus flagged as estimated (J).

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody forms

except for Bromomethane by SW-846 8260B (which is reported for seven soil samples), 1-Methylnaphthalene by SW846 8270C (which is reported for two soil samples), and the 14 TPH fractions by TX1006 (which is reported for one soil sample). For Bromomethane, the laboratory's recertification is in progress for this analyte pending TCEQ action. The results are validated and reported as part of a suite of analytes for the method. Per TRRP-13, the reviewer qualified all results for Bromomethane as not accredited - single analyte in a multi-analyte suite (X8). For 1-Methylnaphthalene and the TPH fractions, The TCEQ does not offer accreditation for these analytes, in this matrix, analyzed by this method. The reviewer qualified all results for 1-Methylnaphthalene and the TPH fractions as not offered for accreditation (X7). A copy of the applicable pages of the laboratory's National Environmental Laboratory Accreditation Program (NELAP) certificate valid during the period in which the laboratory generated the data in this report is included in Attachment 1 to this DUS.

USABILITY SUMMARY

1. Usability of Unqualified Non-Detects – Non-detects are reported at the sample detection limit (SDL) as required per TRRP. Additionally, according to the LRC, an MDL study was performed for each analyte and the MDLs were checked for reasonableness for each applicable analyte. The levels of required performance (LORPs) have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2 or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. As needed per TRRP, the Unadjusted MQL stated by the laboratory is at or below the LORP for each applicable analyte, and thus the analytical methods are appropriate and the results can be used to demonstrate conformance with the criteria.

2. Usability of Qualified Data – There are no major QC deficiencies, and thus all data is usable as qualified for the intended use. As shown in Table 2, the reviewer qualified some non-detects as estimated (UJ) or biased low (UJL) and some detects as estimated (J) due to minor QC deficiencies. Results that are biased low can be used; however, the reported concentration for detects or the reported SDL for non-detects may be low. Results that are estimated may be either low or high. Additionally, all results for Bromomethane in these solid samples are qualified as not accredited - single analyte in a multi-analyte suite (X8) and the results for 1-Methylnaphthalene and the 14 TPH fractions are qualified as not offered for accreditation (X7). QC results are reported for Bromomethane, 1-Methylnaphthalene, and total TPH and meet the requirements for all of the blanks and spikes. Additionally, the laboratory is accredited for the remaining 39 SW-846 8260B analytes and the remaining 17 SW-846 8270C analytes in this matrix, analyzed by this method and for TPH by TX1005. The Bromomethane results are validated and reported as part of a suite of analytes for the method. Finally, results with a laboratory J-flag (i.e., at a concentration between the SDL and MQL) should be considered estimates. The actual value is not expected to exceed the sample MQL.

QAA Reviewer:	Taryn G. Scholz	6/21/13
	(Name)	(Date)

QC PARAMETER	QC OUTCOME
Data Completeness	The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contain all sample results in acceptable format. Revisions were required for work orders 600-69726-1, 600-70064-1, and 600-70675-1 including adding the analyte MTBE for the VOC analyses. All revisions are detailed in the laboratory narrative.
Chain-of-Custody	Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. Note that the data packages under laboratory job number J70064 include a copy of the custody record that is not signed and dated by the laboratory custodian for receipt of the samples. The laboratory provided a signed copy as package addenda and it is included in Attachment 2. Additionally, the information on the custody records is complete and agrees with that in the field notes and laboratory reports, except as follows: • There is no sample date, matrix or preservative indicated on page 2 of 3 for laboratory job number J70064. The laboratory correctly logged in the samples as unpreserved soils collected on 3/14/13 as confirmed by the sample labels and the field notes. • The laboratory did not receive sample 2013-TS-1(0.5-2), which is listed on the custody record for laboratory job number J70064. This sample was marked “Hold” pending analysis of the surface sample collected at location TS-1 and did not require analysis. The reviewer also confirmed that all tests are reported as requested on the custody record and found the following changes: • Several samples are marked “Hold” on the custody record pending results for the first depth interval from that location. Four samples were released for Total Cadmium and Total Lead analysis per PBW’s request and ten were released for Total Lead analysis. The results are reported in work orders 600-69726-3, 600-69726-4, 600-69726-5, 600-70064-2, 600-70064-3, and 600-70675-2. • Total Arsenic and Total Selenium was added for sample 2013-RMSA-7 (0-2), Total Cadmium was added for sample 2013-SL-4 (0-0.5), PAH was added for samples 2013-STB-11(0.5-1.3) and 2013-STB-6(0.5-1.1), and TPH-Fractionated was added for sample 2013-STB-11(0.5-1.3) per PBW’s request. • Total Arsenic and Total Selenium was removed for samples 2013-STB-3 (0-2), 2013-STB-2 (2.5-4), and Dup 6 per PBW’s request.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation. Note that the laboratory narrative and flags indicate the holding time for the moisture results was exceeded for eleven samples. The procedure for percent moisture determination is based on Section 11.2 of SW-846 Method 3550, which does not include a holding time requirement. The laboratory has established a reasonable holding time of 28-days. The %moisture test, which is used for dry-weight correction, was performed outside this holding time for eleven samples at depth intervals that were released for analysis more than 28-days after collection. The holding times for the analytes (metals) that are reported for these samples were not exceeded and thus no data qualifiers were applied.

QC PARAMETER	QC OUTCOME

Sample Condition

The reviewer also noted that the %moisture was determined at the time of metals analysis, which provides the best value for dry-weight correction.

Field Procedures

The samples were collected and placed immediately into sterilized jars provided by the laboratory and then into a cooler with ice for overnight delivery to the laboratory. (Note that for samples requiring VOC and/or TPH analysis, a sample aliquot was collected using a bulk sampling technique into a dedicated 2-ounce jar with a lined lid that was completely filled and that was frozen upon receipt at the laboratory until preparation and analysis.)

Three field duplicates were collected with the 42 investigative samples along with one field MS/MSD pair and one equipment rinsate blank. The rinsate blank was collected on 3/7/13 when a few of the sample were collected with a decontaminated hand auger. Trip blanks were not included in the coolers containing VOC samples.

Results Reporting Procedures

The hardcopy analytical results include a Result, MQL (adjusted), and SDL. The EDD includes the MDL, SDL (under the SQL column per previously used terminology) and the MQL, which is not adjusted for sample specific factors.

Results are reported in mg/kg with dry-weight correction for all tests except PAH, which is reported in µg/kg with dry-weight correction. Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

The single TPH-Fractionated sample required a 2x dilution and both PAH samples required a 50x dilution (5x at preparation and 10x at analysis) due to the nature of the sample matrix, and thus these samples have elevated reporting limits for one or more non-detects.

MQLs

The LORPs have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2, or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. The Unadjusted MQLs for the laboratory are at or below the LORPs for each applicable analyte.

MDLs

According to the LRC, an MDL study was performed for each analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of detectability check standards (DCS) for each applicable analyte as required per TRRP-13. (DCS apply for TPH by TX 1005 but are not analyzed for TPH-Fractionated by TX 1006.) Results for the DCS are included in the data packages.

Laboratory Blanks

No analytes are reported above the detection limit in the laboratory blanks, which confirms that no contamination was introduced in the laboratory.

Field QC Blanks

Both analytes are reported above the detection limit in the equipment rinsate blank, as follows:

Blank Type	Collection Date	Analyte	Blank Concentration
Rinsate	3/7/2013	Total Cadmium	0.000500 J mg/L
Rinsate	3/7/2013	Total Lead	0.0560 mg/L

QC PARAMETER	QC OUTCOME

Field QC Blanks

Results for samples collected with a contaminated rinsate blank may be affected by field contamination. However, these analytes were detected in the associated samples at a concentration well above (more than 5x) the equivalent concentration in the blank, and thus data qualification is not required.

Laboratory Control Spike

The laboratory prepared one laboratory control spike (LCS) for each analytical batch and reported recoveries for all of the analytes for each test except TX1005 (>C28-C35 TPH recovery not reported) and TX1006 (only >C6-C35 recovery reported). Additionally, the laboratory prepared a duplicate LCS (i.e., a LCSD) with the PAH batch. The LCS/LCSD recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

Test	QC Batch	Analyte	LCS/LCSD Recovery
PAH	102162	Benzo[g,h,i]perylene	57% / 56%

Both the LCS and LCSD recovery are slightly below the limits, which indicates a potential low bias for detects and non-detects. The reviewer qualified the results for this analyte in the associated samples (i.e., those prepared in the same QC batch), which are all non-detects, as estimated with a low bias (UJL).

Matrix Spike Recovery

The laboratory prepared one or more matrix spike (MS) and matrix spike duplicate (MSD) with each analytical batch plus a Post Digestion Spike (PDS) with each metals analytical batch. MS/MSD recoveries are reported for the same analytes as the LCS for MS/MSD prepared using a sample from the site, which includes one or more MS/MSD for Total Metals (As, Cd, Pb, and Se) and TPH but none for VOC, PAH, Sulfate, or TPH-Fractionated, as shown in Table 1.

PDS outcomes are given on the LRC but PDS data are not reportable data per TRRP-13. According to the LRC, the PDS met method requirements, which indicates good accuracy for the analysis technique on the given sample matrix, except as follows:

- The recoveries for Total Cadmium and Total Lead for the PDS prepared using sample 2013-STB-3 (0-2) (lab ID 600-69726-15) are below the acceptance limits due to matrix interference.

Since the limits used by the laboratory (75-125%) differ from the data quality criteria (70-130%) and in order to better evaluate data quality, the reviewer requested PDS data from TestAmerica for laboratory work orders 600-69726-1 and 600-70064-1 and it was provided as package addenda (see Attachment 2).

For TPH, the MS/MSD recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects.

For Total Metals, some MS/MSD and/or PDS recoveries for a given analyte are outside the criteria. Details for each exceedance are given in Table 3. The reviewer assessed data quality and applied qualifiers as shown in the table.

Surrogate Recovery

The laboratory used one to six surrogates for each organic analysis. (Note that the surrogate recovery for TPH-Fractionated by TX 1006 is reported under TPH by TX 1005, since the TX 1006 analysis is performed using the sample extract from TX 1005.)

QC PARAMETER	QC OUTCOME
Surrogate Recovery	Surrogate recoveries are within the laboratory limits, which indicates that the overall accuracy of the preparation and analysis technique is good for each particular sample, except as follows: • For both of the PAH samples, surrogate recoveries are not reported due to the dilution (50x) required for analysis of these samples. Data qualification is not required based on surrogate recovery for diluted samples. However, the reviewer noted that since MS/MSD recoveries are not reported for the PAH samples either, there is no matrix QC to assess data quality for these samples. (The LCS/CLSD data indicates adequate laboratory performance on sample free of matrix effects.) Thus, the reviewer qualified the detects and non-detects for both PAH samples (2013-STB-6(0.5-1.1) and 2013-STB-11(0.5-1.3)) as estimated (J and UJ).
Laboratory Duplicate Precision	The laboratory prepared one or more Matrix Spike Duplicate (MSD) with each analytical batch. Additionally, the laboratory prepared one Matrix Duplicate (MD) with each metals analytical batch. RPDs are reported for the same analytes as the LCS for MSD/MD prepared using a sample from the site, which includes one or more MSD for Total Metals (As, Cd, Pb, and Se) and TPH but none for VOC, PAH, Sulfate, or TPH-Fractionated, as shown in Table 1. For TPH, the MSD RPDs are within the TRRP recommended criteria, which indicates good precision for the preparation and analysis technique fro the given sample matrix. For Total Metals, some MSD and/or MD RPDs for a given analyte are outside the criteria. Details for each exceedance are given in Table 3. The reviewer assessed data quality and applied qualifiers as shown in the table.
Field Duplicate Precision	Three field duplicates were collected with the samples and analyzed for Total Cadmium and Total Lead. Results are summarized in Table 4. The RPDs (or the absolute difference between results for concentrations <5xMQL and for non-detects) are within the TRRP criteria for both metals for one field duplicate (collected with 2013-STB-5(0.5-1.5), which indicates good precision for the sampling, preparation, and analysis technique on the given sample matrix. The remaining two field duplicates were outside the criteria for one or both metals as follows: • The results for Total Cadmium and Total Lead are outside the criteria for the pair collected at 2013-STB-2 (2.5-4). • The results for Total Cadmium are outside the criteria for the pair collected at MW-30 (0-0.5). The reviewer qualified the detects for these metals in the original sample and field duplicate sample as estimated with an unknown bias (J).
Instrument Tuning	According to the LRC, instrument tuning met method requirements for the samples, which indicates the GC/MS instrument was properly set up to identify analytes.
Instrument Calibration	According to the LRC, initial and continuing calibration data met method requirements for all reported results, which indicates the instruments were properly calibrated to measure analyte concentrations, except as follows:

QC PARAMETER	QC OUTCOME
Instrument Calibration	• For the continuing calibration blanks (CCB) analyzed under batch 102835 at 15:13 and 15:24, Lead was detected above the MDL but below the MQL. All of the associated samples have Lead detected well above the MQL (greater than 10x), and thus data qualification is not necessary.
Instrument Performance	According to the LRC, the serial dilution and ICP interference check samples met method requirements, which indicates that no significant matrix interference exists, except as follows:
Instrument Performance	• The %differences for Arsenic, Cadmium, and Lead for the serial dilution (SD) prepared using sample 2013-STB-3 (0-2) (laboratory ID 600-69726-15) are above the acceptance limit due to matrix interference. • The %differences for Lead for the serial dilution (SD) prepared using sample 2013-TS-1(0-0.5) (laboratory ID 600-70064-4) is above the acceptance limit due to matrix interference. SD outcomes are given on the LRC but SD data are not reportable data per TRRP-13. Since the limit used by the laboratory (10%) differs from the data quality criteria (30%) and in order to better evaluate data quality, the reviewer requested SD data from TestAmerica for work order s 600-69726-1 and 600-70064-1 and it was provided as package addenda (see Attachment 2). For sample 2013-STB-3 (0-2), the %differences for Arsenic (44%), Cadmium (93%), and Lead (70%) are above the method limit and the data quality criteria. This is not considered to be a batch effect since the recoveries for the MS/MSD prepared with this sample also indicate matrix interference. Thus, the reviewer qualified the detects for Cadmium and Lead for this sample only as estimated (J). Note that Arsenic was included for the batch QC but was not reported for the sample, and thus no qualification is required for this analyte. For sample 2013-TS-1(0-0.5), the %difference for Lead (22%) is above the method limit used by the laboratory (10%) but within the data quality criteria (30%), and thus no data qualification is required.
Internal Standards	According to the LRC, area counts and retention times were within method requirements.

TABLE 1
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MARCH 2013

SAMPLES ANALYZED

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	VOC	PAH	Sulfate	TPH	TPH-Fract.
600-69726-001	2013-RMSA-5 (0-2)	INV	Solid	3/6/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-004	2013-RMSA-7 (0-2)	INV	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-005	2013-RMSA-7 (2-4)	INV	Solid	3/6/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-69726-007	2013-RMSA-2 (2.5-4)	INV	Solid	3/6/13	1	NA	NA	101214	NA	NA	NA	NA	NA	NA
600-69726-008	2013-RMSA-2 (4-5)	INV	Solid	3/6/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-69726-009	2013-RMSA-6 (0-2)	INV	Solid	3/6/13	1	NA	101214	NA	NA	NA	NA	NA	NA	NA
600-69726-009DL	2013-RMSA-6 (0-2)	INV	Solid	3/6/13	10	NA	NA	101214	NA	NA	NA	NA	NA	NA
600-69726-010	2013-RMSA-6 (2-4)	INV	Solid	3/6/13	10	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-69726-011	2013-RMSA-6 (4-5)	INV	Solid	3/6/13	1	NA	NA	104814	NA	NA	NA	NA	NA	NA
600-69726-011	2013-RMSA-6 (4-5)	MS	Solid	3/6/13	1	NA	NA	104814	NA	NA	NA	NA	NA	NA
600-69726-011	2013-RMSA-6 (4-5)	MSD	Solid	3/6/13	1	NA	NA	104814	NA	NA	NA	NA	NA	NA
600-69726-011	2013-RMSA-6 (4-5)	MD	Solid	3/6/13	1	NA	NA	104814	NA	NA	NA	NA	NA	NA
600-69726-012	2013-STB-4 (0-2)	INV	Solid	3/6/13	1	101214	101214	NA	101214	NA	NA	NA	NA	NA
600-69726-012DL	2013-STB-4 (0-2)	INV	Solid	3/6/13	10	NA	NA	101214	NA	NA	NA	NA	NA	NA
600-69726-013	2013-STB-4 (2-4)	INV	Solid	3/6/13	1	NA	104658	NA	NA	NA	NA	NA	NA	NA
600-69726-013DL	2013-STB-4 (2-4)	INV	Solid	3/6/13	10	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-69726-014	2013-STB-4 (4-5)	INV	Solid	3/6/13	1	NA	104814	104814	NA	NA	NA	NA	NA	NA
600-69726-015	2013-STB-3 (0-2)	INV	Solid	3/6/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-015	2013-STB-3 (0-2)	MS	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-015	2013-STB-3 (0-2)	MSD	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-015	2013-STB-3 (0-2)	MD	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-018	2013-STB-1 (0-2)	INV	Solid	3/6/13	1	101214	101214	NA	101214	NA	NA	NA	NA	NA
600-69726-018DL	2013-STB-1 (0-2)	INV	Solid	3/6/13	10	NA	NA	101214	NA	NA	NA	NA	NA	NA
600-69726-019	2013-STB-1 (2-4)	INV	Solid	3/6/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-69726-019	2013-STB-1 (2-4)	INV	Solid	3/6/13	1	NA	104658	NA	NA	NA	NA	NA	NA	NA
600-69726-020	2013-STB-1 (4-5)	INV	Solid	3/6/13	1	NA	104814	104814	NA	NA	NA	NA	NA	NA
600-69726-021	2012-FWFS-1 (4-5)	INV	Solid	3/6/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-021	2012-FWFS-1 (4-5)	MS	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	VOC	PAH	Sulfate	TPH	TPH-Fract.
600-69726-021	2012-FWFS-1 (4-5)	MSD	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-021	2012-FWFS-1 (4-5)	MD	Solid	3/6/13	1	101214	101214	101214	101214	NA	NA	NA	NA	NA
600-69726-022	2013-RMSA-6 (2.6-3.3)	INV	Solid	3/7/13	1	NA	NA	NA	NA	101255	NA	NA	101212	NA
600-69726-024	2013-STB-2 (2.5-4)	INV	Solid	3/7/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-025	2013-STB-2 (4-5)	INV	Solid	3/7/13	1	NA	NA	107687	NA	101255	NA	NA	101212	NA
600-69726-025	2013-STB-2 (4-5)	MS	Solid	3/7/13	1	NA	NA	NA	NA	NA	NA	NA	101212	NA
600-69726-025	2013-STB-2 (4-5)	MSD	Solid	3/7/13	1	NA	NA	NA	NA	NA	NA	NA	101212	NA
600-69726-026	Dup 6	FD	Solid	3/7/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-027	2013-SL-4 (0-0.5)	INV	Solid	3/7/13	1	NA	101214	101214	NA	NA	NA	NA	NA	NA
600-69726-030	2013-CUFT-7A (0-0.5)	INV	Solid	3/7/13	1	NA	101214	101214	NA	NA	NA	101265	NA	NA
600-69726-034	2013-CUFT -10 (0-0.5)	INV	Solid	3/7/13	1	NA	101214	101214	NA	NA	NA	101265	NA	NA
600-69726-038	EB-1	EB	Water	3/7/13	1	NA	101195	101195	NA	NA	NA	NA	NA	NA
600-70064-001	2013-TS-2 (0-0.5)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-004	2013-TS-1(0-0.5)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-004	2013-TS-1(0-0.5)	MS	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-004	2013-TS-1(0-0.5)	MSD	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-004	2013-TS-1(0-0.5)	MD	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-007	2013-FOP-1 (0-0.5)	INV	Solid	3/14/13	1	NA	101811	NA	NA	NA	NA	NA	NA	NA
600-70064-007DL	2013-FOP-1 (0-0.5)	INV	Solid	3/14/13	10	NA	NA	101811	NA	NA	NA	NA	NA	NA
600-70064-008	2013-FOP-1 (0.5-2)	INV	Solid	3/14/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70064-009	2013-FOP-1 (2-4)	INV	Solid	3/14/13	1	NA	NA	104699	NA	NA	NA	NA	NA	NA
600-70064-009	2013-FOP-1 (2-4)	MS	Solid	3/14/13	1	NA	NA	104699	NA	NA	NA	NA	NA	NA
600-70064-009	2013-FOP-1 (2-4)	MSD	Solid	3/14/13	1	NA	NA	104699	NA	NA	NA	NA	NA	NA
600-70064-009	2013-FOP-1 (2-4)	MD	Solid	3/14/13	1	NA	NA	104699	NA	NA	NA	NA	NA	NA
600-70064-011	2013-AD-1(0-0.5)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-012	2013-AD-1(0.5-2)	INV	Solid	3/14/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70064-012	2013-AD-1(0.5-2)	MS	Solid	3/14/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70064-012	2013-AD-1(0.5-2)	MSD	Solid	3/14/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70064-012	2013-AD-1(0.5-2)	MD	Solid	3/14/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70064-014	2013-MB-1(0-2)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-017	2013-MB-2(0-2)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-019	2013-MB-1(4-5)	INV	Solid	3/14/13	1	NA	NA	NA	NA	101822	NA	NA	NA	NA
600-70064-020	2013-MB-1(0-2)	INV	Solid	3/14/13	1	NA	NA	NA	NA	101822	NA	NA	NA	NA
600-70064-021	2013-MB-2(0-2)	INV	Solid	3/14/13	1	NA	NA	NA	NA	101822	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	VOC	PAH	Sulfate	TPH	TPH-Fract.
600-70064-022	2013-STB-5(0.5-1.5)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-023	2013-STB-6(0.5-1.1)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-024	DUP-7	FD	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-025	2013-STB-7(0.5-1.2)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-026	2013-STB-8(0.8-1.3)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-027	2013-STB-11(0.5-1.3)	INV	Solid	3/14/13	1	NA	101811	101811	NA	NA	NA	NA	NA	NA
600-70064-027DL	2013-STB-11(0.5-1.3)	INV	Solid	3/14/13	2	NA	NA	NA	NA	NA	NA	NA	NA	102185
600-70064-027DL	2013-STB-11(0.5-1.3)	INV	Solid	3/14/13	10	NA	NA	NA	NA	NA	102162	NA	NA	NA
600-70064-028	2013-STB-6(0.5-1.1)	INV	Solid	3/14/13	1	NA	NA	NA	NA	101822	NA	NA	NA	NA
600-70064-028DL	2013-STB-6(0.5-1.1)	INV	Solid	3/14/13	5	NA	NA	NA	NA	NA	NA	NA	101862	NA
600-70064-028DL	2013-STB-6(0.5-1.1)	INV	Solid	3/14/13	10	NA	NA	NA	NA	NA	102162	NA	NA	NA
600-70064-029	2013-STB-11(0.5-1.3)	INV	Solid	3/14/13	1	NA	NA	NA	NA	101822	NA	NA	NA	NA
600-70064-029DL	2013-STB-11(0.5-1.3)	INV	Solid	3/14/13	5	NA	NA	NA	NA	NA	NA	NA	101862	NA
600-70675-001	MW-30 (0-0.5)	INV	Solid	3/27/13	1	NA	102835	NA	NA	NA	NA	NA	NA	NA
600-70675-001DL	MW-30 (0-0.5)	INV	Solid	3/27/13	20	NA	NA	102835	NA	NA	NA	NA	NA	NA
600-70675-002	MW-30 (0.5-2)	INV	Solid	3/27/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70675-005	Dup 8	FD	Solid	3/27/13	1	NA	102835	NA	NA	NA	NA	NA	NA	NA
600-70675-005DL	Dup 8	FD	Solid	3/27/13	20	NA	NA	102835	NA	NA	NA	NA	NA	NA
600-70675-006	2013-RRS-3A (0.8-2)	INV	Solid	3/27/13	1	NA	102835	102835	NA	NA	NA	NA	NA	NA
600-70675-007	2013-RRS-3A (2-4)	INV	Solid	3/27/13	1	NA	NA	104520	NA	NA	NA	NA	NA	NA
600-70675-009	2013-AD-2A (0.5-2)	INV	Solid	3/27/13	1	NA	102835	102835	NA	NA	NA	NA	NA	NA

DF – Dilution Factor
EB – Equipment Rinsate Blank
FD – Field Duplicate
INV – Investigative
MD – Matrix Duplicate
MS – Matrix Spike
MSD – Matrix Spike Duplicate

Field Duplicate Key

Field Duplicate		Original Sample	
Dup 6	600-69726-026	2013-STB-2 (2.5-4)	600-69726-024
DUP-7	600-70064-024	2013-STB-5(0.5-1.5)	600-70064-022
Dup 8	600-70675-005	MW-30 (0-0.5)	600-70675-001

TABLE 2
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MARCH 2013

QUALIFIED SAMPLE RESULTS

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2012-FWFS-1 (4-5)	600-69726-021	3/6/13	Lead	30.9		mg/Kg	J	Poor MD precision (49 RPD)
2013-AD-1(0.5-2)	600-70064-012	3/14/13	Lead	174		mg/Kg	J	Poor MD precision (51 RPD)
2013-FOP-1 (2-4)	600-70064-009	3/14/13	Lead	90.4		mg/Kg	J	Poor MSD precision (69 RPD); Poor MD precision (110 RPD)
2013-MB-1(0-2)	600-70064-020	3/14/13	Bromomethane	0.000947	U	mg/Kg	X8	none
2013-MB-1(4-5)	600-70064-019	3/14/13	Bromomethane	0.00108	U	mg/Kg	X8	none
2013-MB-2(0-2)	600-70064-021	3/14/13	Bromomethane	0.00106	U	mg/Kg	X8	none
2013-RMSA-6 (2.6-3.3)	600-69726-022	3/7/13	Bromomethane	0.00118	U	mg/Kg	X8	none
2013-STB-11(0.5-1.3)	600-70064-029	3/14/13	Bromomethane	0.000919	U	mg/Kg	X8	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	1-Methylnaphthalene	336	J	ug/Kg	X7, J	No matrix QC (MS/MSD or SU) available; Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	2-Methylnaphthalene	147	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Acenaphthene	77.4	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Acenaphthylene	53.7	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Anthracene	68.8	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Benzo[a]anthracene	74.2	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Benzo[a]pyrene	86.5	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Benzo[b]fluoranthene	92.4	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Benzo[g,h,i]perylene	272	U	ug/Kg	UJL	Low average LCS/LCSD recovery (57%); No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Benzo[k]fluoranthene	80.1	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Chrysene	54.8	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Dibenz(a,h)anthracene	195	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Fluoranthene	167	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Fluorene	127	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Indeno[1,2,3-cd]pyrene	188	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Naphthalene	72.6	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Phenanthrene	266	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	Pyrene	98.4	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C10-C12 aliphatics	19.3	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C10-C12 aromatics	4.81	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C12-C16 aliphatics	8.83	J	mg/Kg	X7, J	Result is between SDL and MQL

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C12-C16 aromatics	13.3	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C16-C21 aliphatics	22.9		mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C16-C21 aromatics	31.4		mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C21-C35 aliphatics	168		mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C21-C35 aromatics	383		mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C6-C35	684		mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C6-C8 aliphatics	1.68	U	mg/Kg	X7	none
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C7-C8 aromatics	11.7	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C8-C10 aliphatics	15.1	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	>C8-C10 aromatics	6.17	J	mg/Kg	X7, J	Result is between SDL and MQL
2013-STB-11(0.5-1.3)	600-70064-027	3/14/13	nC6 Aliphatics	1.77	U	mg/Kg	X7	none
2013-STB-2 (2.5-4)	600-69726-024	3/7/13	Cadmium	1.13		mg/Kg	J	Poor field precision (abs difference >3MQL), Use higher value (from the field duplicate)
2013-STB-2 (2.5-4)	600-69726-024	3/7/13	Lead	150		mg/Kg	J	Poor field precision (135 RPD), Use higher value (from the field duplicate)
2013-STB-2 (4-5)	600-69726-025	3/7/13	Bromomethane	0.00114	U	mg/Kg	X8	none
2013-STB-3 (0-2)	600-69726-015	3/6/13	Cadmium	8.21		mg/Kg	J	High MS recovery (143%); Low PDS recovery (69%); Poor MD precision (94 RPD); SD %difference (93%) outside the criteria with higher undiluted result
2013-STB-3 (0-2)	600-69726-015	3/6/13	Lead	82.1		mg/Kg	J	Poor MSD precision (39 RPD); Poor MD precision (105 RPD); SD %difference (70%) outside the criteria with higher undiluted result
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Bromomethane	0.000912	U	mg/Kg	X8	none
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	1-Methylnaphthalene	358	J	ug/Kg	X7, J	No matrix QC (MS/MSD or SU) available; Result is between SDL and MQL
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	2-Methylnaphthalene	391	J	ug/Kg	J	No matrix QC (MS/MSD or SU) available; Result is between SDL and MQL
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Acenaphthene	79	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Acenaphthylene	54.8	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Anthracene	70.2	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Benzo[a]anthracene	75.7	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Benzo[a]pyrene	88.3	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Benzo[b]fluoranthene	94.3	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Benzo[g,h,i]perylene	278	U	ug/Kg	UJL	Low average LCS/LCSD recovery (57%); No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Benzo[k]fluoranthene	81.7	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Chrysene	55.9	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Dibenz(a,h)anthracene	199	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Fluoranthene	171	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Fluorene	129	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Indeno[1,2,3-cd]pyrene	192	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Naphthalene	74	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Phenanthrene	271	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-STB-6(0.5-1.1)	600-70064-028	3/14/13	Pyrene	100	U	ug/Kg	UJ	No matrix QC (MS/MSD or SU) available
2013-TS-1(0-0.5)	600-70064-004	3/14/13	Lead	10.2		mg/Kg	J	High average MS/MSD recovery (1241%); Passing PDS recovery (79%)
Dup 6	600-69726-026	3/7/13	Cadmium	3.43		mg/Kg	J	Poor field precision (abs difference >3MQL), Use higher value (from the field duplicate)
Dup 6	600-69726-026	3/7/13	Lead	773		mg/Kg	J	Poor field precision (135 RPD), Use higher value (from the field duplicate)
Dup 8	600-70675-005	3/27/13	Cadmium	32		mg/Kg	J	Poor field precision (65 RPD), Use higher value (from the original sample)
MW-30 (0-0.5)	600-70675-001	3/27/13	Cadmium	62.7		mg/Kg	J	Poor field precision (65 RPD), Use higher value (from the original sample)

Note: In addition to the above results, all detects between the SDL and MQL (i.e., results with a laboratory J-flag) should be considered estimated since the reported concentration is below the calibration range.

J Estimated data; The analyte was detected and identified. The associated numerical value (i.e., the reported sample concentration) is the approximate concentration of the analyte in the sample.

NJ Tentatively identified, estimated data; The analysis indicates the presence of the analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.

NS Not selected; Another result (from a secondary dilution, different analytical method, re-sampling, etc.) is selected for use based on QC outcomes and/or reported concentrations.

R Rejected data; The data is unusable. Serious QC deficiencies make it impossible to verify the absence or presence of this analyte.

U Not detected; The analyte was not detected >5x (10x for common contaminants) the level in an associated blank and thus should be considered not detected above the level of the associated numerical value (i.e., the reported sample concentration).

UJ Estimated data; The analyte was not detected above the reported sample detection limit (SDL). The numerical value of the SDL is estimated and may be inaccurate.

X7 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.

X8 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte in this matrix by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.

H Bias in sample result is likely to be high

L Bias in sample result is likely to be low

NOTE: For multiple QC issues, the reviewer applied the most severe flag. (R >U >NJ >J >JL/JH for detects and R >UJ >UJL for non-detects)

TABLE 3
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MARCH 2013

MS/MSD, PDS, AND MD EXCEEDANCES

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification
6010B	101214	Cadmium	2013-STB-3 (0-2)	8.21	30.6	143	110	127	69	P (22)	94	A second MS/MSD for this batch (prepared with sample 2012-FWFS-1 (4-5)) passes the criteria for Cadmium and validates the batch. The reviewer qualified the detect for Cadmium in the parent sample only as estimated (J).
6010B	101214	Lead	2013-STB-3 (0-2)	82.1	61.2	426	244	335	4	39	105	The MS/MSD and PDS recovery check is waived due to insufficient spike amount. A second MS/MSD for this batch (prepared with sample 2012-FWFS-1 (4-5)) passes the accuracy criteria for Lead and validates the batch. The reviewer qualified the detect for Lead in the parent sample only as estimated (J).
6010B	101214	Lead	2012-FWFS-1 (4-5)	30.9	66.5	P (98)	P (101)	P (100)	NP	P (3)	49	The MSD RPD passes the criteria. The reviewer qualified the detect for Lead in the parent sample only as estimated (J).
6010B	101811	Lead	2013-TS-1(0-0.5)	10.2	59	1244	1238	1241	79	P (4)	P (2)	The PDS recovery passes the criteria. The reviewer qualified the detect for Lead in the parent sample only as estimated (J).
6010B	104520	Lead	2013-AD-1(0.5-2)	174	57.5	175	197	186	NA	P (6)	51	The MS/MSD recovery check is waived due to insufficient spike amount. The MSD RPD passes the criteria. The reviewer qualified the detect for Lead in the parent sample only as estimated (J).
6010B	104699	Lead	2013-FOP-1 (2-4)	90.4	56	-17	136	60	NA	69	110	The MS/MSD recovery check is waived due to insufficient spike amount. The batch only includes this one sample. The reviewer qualified the detect for Lead in the parent sample as estimated (J).

NA Not available.

NP Not performed. The batch contains multiple MS/MSD and the laboratory selected another MS/MSD for performance of the PDS and SD.

P Pass. The recovery or RPD (shown in parentheses) is within the criteria.

Notes:

1. Recoveries highlighted in red are below the TRRP-recommended data quality criteria (70-130% for inorganics) and recoveries highlighted in blue are above the criteria.
2. If the spike amount is less than the amount in the unspiked parent sample, the data are considered inconclusive and the MS/MSD recovery check was waived.

TABLE 4
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MARCH 2013

FIELD DUPLICATE RESULTS

Field Duplicate	Original Sample	Sample Date	Method	Analyte	Field Duplicate Result		Original Sample Result		RPD	Absolute Difference	3x MQL	Qualified
Dup 6	2013-STB-2 (2.5-4)	3/7/13	6010B	Cadmium	3.43	mg/Kg	1.13	mg/Kg	NA	2.3	0.838	yes
Dup 6	2013-STB-2 (2.5-4)	3/7/13	6010B	Lead	773	mg/Kg	150	mg/Kg	135	NA	1.67	yes
DUP-7	2013-STB-5(0.5-1.5)	3/14/13	6010B	Cadmium	2.26	mg/Kg	2.35	mg/Kg	3.9	NA	0.794	no
DUP-7	2013-STB-5(0.5-1.5)	3/14/13	6010B	Lead	159	mg/Kg	178	mg/Kg	11	NA	1.59	no
Dup 8	MW-30 (0-0.5)	3/27/13	6010B	Cadmium	32	mg/Kg	62.7	mg/Kg	65	NA	0.835	yes
Dup 8	MW-30 (0-0.5)	3/27/13	6010B	Lead	19200	mg/Kg	20300	mg/Kg	5.6	NA	33.3	no

Note: The RPD test ($\leq$50%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test ($\leq$ 3x MQL) applies.

ATTACHMENT 1

APPLICABLE PAGES OF THE
LABORATORY ACCREDITATION CERTIFICATE

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183207
2,4-D	TX	8545	10183207
2,4-DB	TX	8560	10183207
Acifluorfen	TX	8505	10183207
Dalapon	TX	8555	10183207
Dicamba	TX	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207
MCPP	TX	7780	10183207
Silvex (2,4,5-TP)	TX	8650	10183207

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
2-Propanol	TX	5065	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acetonitrile	TX	4320	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Benzyl chloride	TX	5635	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromofluoromethane	TX	4590	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Diethyl ether	TX	4725	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184802
Ethyl acetate	TX	4755	10184802
Ethyl methacrylate	TX	4810	10184802
Ethylbenzene	TX	4765	10184802
Ethylene oxide	TX	4795	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methacrylonitrile	TX	4925	10184802
Methyl acrylate	TX	4945	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl methacrylate	TX	4990	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Dinitrobenzene	TX	6155	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Dinitrobenzene	TX	6165	10185805
1,4-Naphthoquinone	TX	6420	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

1,4-Phenylenediamine	TX	6630	10185805
1-Chloronaphthalene	TX	5790	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Diaminotoluene	TX	5880	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethoxybenzidine	TX	6100	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

4,4'-Methylenebis(2-chloroaniline)	TX	6365	10185805
4,4'-Methylenebis(n,n-dimethylaniline)	TX	6370	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-1,3-phenylenediamine	TX	5850	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aminoazobenzene	TX	5535	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aramite	TX	5560	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Azobenzene	TX	5562	10185805
Benzenethiol (Thiophenol)	TX	6750	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Captan	TX	7190	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenz(a,j) acridine	TX	5900	10185805
Dibenzo(a,e) pyrene	TX	5890	10185805
Dibenzofuran	TX	5905	10185805
Dichlone	TX	7430	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185805
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hydroquinone	TX	6310	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Methylphenols, total	TX	10313	10185805
Mevinphos	TX	7850	10185805
Mirex	TX	7870	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
Nitroquinoline-1-oxide	TX	6515	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805
Parathion, ethyl	TX	7955	10185805
p-Benzoquinone (Quinone)	TX	5620	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Safrole	TX	6685	10185805
Sulfotepp	TX	8155	10185805
Thionazin (Zinophos)	TX	8235	10185805
Toluene diisocyanate	TX	6775	10185805
tris-(2,3-Dibromopropyl) phosphate (tris-BP)	TX	8310	10185805

Method EPA 8315

Analyte	**AB**	**Analyte ID**	**Method ID**
Formaldehyde	TX	4815	10188008

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193405
Total Cyanide	TX	1635	10193405

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10196006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 9038

Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9050

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198808

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9066

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10200609

Method EPA 9071

Analyte	AB	Analyte ID	Method ID

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10201806
Method EPA 9095			
Analyte	**AB**	**Analyte ID**	**Method ID**
Paint Filter Liquids Test	TX	10312	10204203
Method SSA/ASA Part 3:34			
Analyte	**AB**	**Analyte ID**	**Method ID**
Carbon, organic (Walkley-Black)	TX	10340	SSA/ASA Pt 3:34
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT 2

LABORATORY PACKAGE ADDENDA

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAm
THE LEADER IN ENVIRON

600-70064 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor Behling & Wheeler, LLC	Eric Pastor	3/14/13	225366
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr. Suite 4004	(512) 671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock, TX 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide – Fresco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCE	Analysis: Lead	Cadmium	VOC	MS/MSD	Hold	Special Instructions/ Conditions of Receipt
2013 – TS-2 (0-0.5)	3/14/13	915				X	X						X	X	X				
2013 – TS-2 (0.5-2)		915												X	X			X	Hold
2013 – TS-2 (2-4)		915												X	X			X	Hold
2013 – TS-1 (0-0.5)		935												X	X		X		MS/MSD
2013 – TS-1 (0.5-2)		935												X	X			X	Hold
2013 – TS-1 (2-4)		935												X	X			X	Hold
2013 – FOP-1 (0-0.5)		1020												X	X				
2013 – FOP-1 (0.5-2)		1020												X	X			X	Hold
2013 – FOP-1 (2-4)		1020												X	X			X	Hold
2013 – FOP-1 (4-5)		1020												X	X			X	Hold
2013 – AD-1 (0-0.5)		1035												X	X			X	Hold
2013 – AD-1 (0.5-2)		1035												X	X			X	Hold

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1520	1. Received By	3/14/13	1520
2. Relinquished By	3/14/13	1733	2. Received By	3/15/13	838
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vierra	3-14-13	225368
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 3
2201 Double Creek Dr Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide – Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Lead	Cadmium	VOC	Special Instructions/ Conditions of Receipt
2013-AD-1 (2-4)		1035											X	X		Hold
2013-MB-1 (0-2)		1120											X	X		
2013-MB-1 (2-4)		1120											X	X		Hold
2013-MB-1 (4-5)		1120											X	X		Hold
2013-MB-2 (0-2)		1100											X	X		
2013-MB-2 (2-4)		1100											X	X		Hold
2013-MB-1 (4-5)		1120													X	
2013-MB-1 (0-2)		1120													X	
2013-MB-2 (0-2)		1100													X	
2013-STB-5 (0.5-1.5)		1315											X	X		
2013-STB-6 (0.5-1.1)		1330											X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archivo For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vierra	3-14-13	1520	1. Received By: McCarver	3/14/13	1530
2. Relinquished By: McCarver	3/14/13	1730	2. Received By: [illegible]	3/15/13	838
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Eric Pastor	3/14/13	225370
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. Suite 4004	(512) 671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Lead	Cadmium	VOCs	TPH	ms/msd	Hold	Special Instructions/ Conditions of Receipt
Dup-7	3/14/13	-				X	X						X	X	X					
2013 - STB - 7 (0.5-1.3)		1900				X	X						X	X	X					
2013 - STB - 8 (0.8-1.3)		1410				X	X						X	X	X					
2013 - STB - 11 (0.5-1.3)		1420				X	X						X	X	X					
2013 - STB - 6 (0.5-1.1)		1330				X	X						X			X	X			
2013 - STB - 11 (0.5-1.3)		1420				X	X						X			X	X			

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

1. Relinquished By	Date	Time	1. Received By	Date	Time
Will	3-14-13	1520	McConn	3/14/13	1520
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
McConn	3/14/13	1538	(Cepon)	3/15/13	838
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Method Blank - Batch: 600-101195

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 600-101195/1-A	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-101195	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/11/2013 1544	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 0905				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.000350	U	0.000350	0.00500
Lead	0.00290	U	0.00290	0.0100

Lab Control Sample - Batch: 600-101195

Method: 6010B
Preparation: 3010A

Lab Sample ID:	LCS 600-101195/2-A	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-101195	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/11/2013 1415	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 0905				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.500	0.5225	105	80 - 120	
Lead	1.00	1.044	104	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101195

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	600-69668-L-1-G MS	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-101195	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/11/2013 1429			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 0905				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69668-L-1-H MSD	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-101195	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/11/2013 1431			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 0905				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	104	107	75 - 125	2	20		
Lead	103	105	75 - 125	2	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101195

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	600-69668-L-1-G MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/11/2013 1429		
Prep Date:	03/08/2013 0905		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69668-L-1-H MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/11/2013 1431
Prep Date:	03/08/2013 0905
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.000350	U	0.500	0.500	0.5222	0.5332
Lead	0.00290	U	1.00	1.00	1.027	1.049

Duplicate - Batch: 600-101195

Method: 6010B
Preparation: 3010A

Lab Sample ID:	600-69668-L-1-F DU	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-101195	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/11/2013 1427	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 0905				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.000350	U	0.000350	NC	20	U
Lead	0.00290	U	0.00290	NC	20	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Method Blank - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101214/1-A	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/11/2013 1236	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/11/2013 1239	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	104.0	101.0	83.6 - 115.5	
Lead	76.9	79.36	103.2	81.3 - 118.7	
Arsenic	168	172.1	102.4	83.3 - 117.3	
Selenium	126	123.3	97.9	80.2 - 120.6	

Post Digestion Spike - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69726-15	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/11/2013 1348	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	8.21	29.7	28.66	69	75 - 125	W
Lead	82.1	59.4	84.31	4	75 - 125	W
Arsenic	16.6	59.4	65.72	83	75 - 125	
Selenium	1.29 J	59.4	52.98	87	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101214

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69726-15	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/11/2013 1258			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69726-15	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	03/11/2013 1314			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	143	110	75 - 125	22	20	N	N
Lead	426	244	75 - 125	39	20	N	N
Arsenic	87	99	75 - 125	9	20		
Selenium	87	89	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101214

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69726-21	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/11/2013 1336			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69726-21	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	03/11/2013 1345			Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	94	96	75 - 125	3	20		
Lead	98	101	75 - 125	3	20		
Arsenic	94	95	75 - 125	1	20		
Selenium	84	84	75 - 125	2	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101214

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69726-15	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/11/2013 1258		
Prep Date:	03/08/2013 1121		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69726-15
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/11/2013 1314
Prep Date:	03/08/2013 1121
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	8.21		30.6	30.3	51.92	N	41.62	N
Lead	82.1		61.2	60.5	342.7	N	229.9	N
Arsenic	16.6		61.2	60.5	70.02		76.29	
Selenium	1.29	J	61.2	60.5	54.43		55.06	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101214

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69726-21	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/11/2013 1336		
Prep Date:	03/08/2013 1121		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69726-21
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/11/2013 1345
Prep Date:	03/08/2013 1121
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.528		32.9	33.2	31.50	32.39
Lead	30.9		65.8	66.5	95.17	97.90
Arsenic	9.89		65.8	66.5	71.87	72.91
Selenium	0.548	J	65.8	66.5	55.76	56.62

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Duplicate - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69726-15	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/11/2013 1256	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	8.21		22.75	94	20	F
Lead	82.1		263.1	105	20	F
Arsenic	16.6		18.63	12	20	
Selenium	1.29	J	1.573	20	20	J

Duplicate - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69726-21	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/11/2013 1333	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.528		0.4610	14	20	
Lead	30.9		50.64	49	20	F
Arsenic	9.89		9.375	5	20	
Selenium	0.548	J	0.6847	22	20	J

Serial Dilution - Batch: 600-101214

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69726-15	Analysis Batch:	600-101385	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101214	Lab File ID:	A031113.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/11/2013 1350	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/08/2013 1121				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	8.21		0.5343	93	10	J *
Lead	82.1		24.25	70	10	*
Arsenic	16.6		9.203	44	10	*
Selenium	1.29	J	1.54	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-1

Method Blank - Batch: 600-101811

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101811/1-A	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/18/2013 1630	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-101811

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/18/2013 1634	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	98.11	95.3	83.6 - 115.5	
Lead	76.9	74.28	96.6	81.3 - 118.7	

Post Digestion Spike - Batch: 600-101811

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70064-4	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1819	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.183	J	28.8	21.98	76	75 - 125	
Lead	10.2		57.5	55.77	79	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101811

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70064-4	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/18/2013 1650			Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

MSD Lab Sample ID:	600-70064-4	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	03/18/2013 1654			Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	86	85	75 - 125	3	20		
Lead	1244	1238	75 - 125	4	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101811

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70064-4	Units:	mg/Kg	MSD Lab Sample ID:	600-70064-4
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/18/2013 1650			Analysis Date:	03/18/2013 1654
Prep Date:	03/15/2013 1545			Prep Date:	03/15/2013 1545
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD	
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual	
Cadmium	0.183	J	29.5	30.9	25.48		26.32	
Lead	10.2		59.0	61.8	743.6	N	775.7	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-1

Duplicate - Batch: 600-101811

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70064-4	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	03/18/2013 1646	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.183	J	0.1895	4	20	J
Lead	10.2		10.43	2	20	

Serial Dilution - Batch: 600-101811

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70064-4	Analysis Batch:	600-101898	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101811	Lab File ID:	T031813
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1823	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/15/2013 1545				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.183	J	0.147	NC	10	U
Lead	10.2		12.45	22	10	*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69726-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 2

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 4:34:22 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 22
Method Summary 23
Sample Summary 24
Client Sample Results 25
Definitions/Glossary 32
Surrogate Summary 33
QC Sample Results 34
Default Detection Limits 40
QC Association Summary 42
Lab Chronicle 45
Certification Summary 49
Chain of Custody 50
Receipt Checklists 54

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69726-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/27/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: BDG	Prep Batch Number(s): 600-101238 – Sulfate

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: BDG	Prep Batch Number(s): 600-101238 – Sulfate

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: BDG	Prep Batch Number(s): 600-101238 – Sulfate

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726
Reviewer Name: TWR	Prep Batch Number(s): 600-101195(w), 101214(s)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726
Reviewer Name: TWR	Prep Batch Number(s): 600-101195(w), 101214(s)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726
Reviewer Name: TWR	Prep Batch Number(s): 600-101195(w), 101214(s)- ICP

ER #[1]	DESCRIPTION
1	The cadmium and lead recoveries in samples 69726-15 MS and MSD were outside acceptance limits due to matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
2	The cadmium and lead RPDs between samples 69726-15 MS and MSD were above acceptance limits due to the non-homogenous nature of the samples.
3	The cadmium and lead RPDs between samples 69726-15 and 69726-15 MD and the lead RPD between samples 69726-21 and 69726-21 MD were above acceptance limits due to the non-homogenous nature of the samples.
4	The lead SDLs were elevated in samples 69726-9, 12 and 18 due to the dilutions necessary to bring this analyte to within linear dynamic range.
5	The cadmium and lead recoveries in sample 69726-15 PDS were outside acceptance limits due to matrix interference. The arsenic, cadmium and lead percent differences between samples 69726-15 and 69726-15 SD were above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/21/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: YX	Prep Batch Number: 600-101255-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		1
		Were MS/MSD RPDs within laboratory QC limits?			X		1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/21/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: YX	Prep Batch Number: 600-101255-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/21/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726
Reviewer Name: YX	Prep Batch Number: 600-101255-VOA

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101212- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101212- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69726-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101212- TX1005

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 10/9/2012
Date Prepared: 10/9/2012
TALs Batches: K28205.D
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Dichlorodifluoromethane	1.54	2.5	1.57	5
Chloromethane	1.66	2.5	2.85	10
Vinyl Chloride	0.9	2.5	2.86	10
Bromomethane	0.83	2.5	2.54	10
Chloroethane	1.4	2.5	3.11	10
Trichlorofluoromethane	0.66	2.5	2.92	10
Acrolein	1.39	2.5	17.79	5
1,1-Dichloroethene	1.22	2.5	3.06	5
Trichlorotrifluoromethane	0.66	2.5	3.02	10
Acetone	1.66	2.5	0.026	5
Methyl Iodide	2.5	5	8.55	5
2-Propanol	27.47	2.5	85.83	5
Carbon Disulfide	0.55	2.5	6.35	10
Acetonitrile	1.39	2.5	6.05	10
Allyl chloride	1.39	2.5	5.73	5
Methylene Chloride	2.19	5	2.38	10
Acrylonitrile	5.82	5	21.17	25
trans-1,2-Dichloroethene	1.14	2.5	3.05	5
Methyl tert-butyl ether	1.83	2.5	2.92	5
1,1-Dichloroethane	0.87	2.5	3.11	5
Vinyl Acetate	0.93	2.5	5.79	5
Chloroprene	2.71	5	7.68	5
cis-1,2-Dichloroethene	0.83	2.5	3.22	5
1,2-Dichloroethene (total)	1.9	2.5	6.27	10
2,2-Dichloropropane	1.82	2.5	2.95	5
2-Butanone	1.9	2.5	6.25	5
Propionitrile	2.36	5	9.5	5
Methacrylonitrile	5	5	8.06	5
Bromochloromethane	1.78	2.5	3.03	5
Chloroform	0.66	2.5	3.48	5
1,1,1-Trichloroethane	0.74	2.5	3.13	5
1,1-Dichloropropene	0.65	2.5	3.25	5
Carbon Tetrachloride	1.13	2.5	3.19	5
Isobutyl alcohol	17.16	5	21.72	5
Benzene	0.63	2.5	3.18	5
1,2-Dichloroethane	0.9	2.5	3.35	5
Trichloroethene	1.4	2.5	3.24	5
1,2-Dichloropropane	0.71	2.5	3.01	5
Methyl methacrylate	2.86	5	4.06	10

Methylene Bromide	0.75	2.5	3.02	5
1,4-Dioxane	62.07	250	133.4	500
Bromodichloromethane	0.66	2.5	2.98	5
2-Chloroethyl vinyl ether	0.98	2.5	5.97	10
cis-1,3-Dichloropropene	0.54	2.5	3.02	5
Toluene	1.38	2.5	3.32	5
trans-1,3-Dichloropropene	0.58	2.5	2.96	5
Ethyl methacrylate	1.66	2.5	5.65	5
1,1,2-Trichloroethane	0.73	2.5	2.97	5
1,3-Dichloropropane	0.63	2.5	3.23	5
Tetrachloroethene	1.4	2.5	3.03	5
2-Hexanone	1.01	2.5	5.68	10
Dibromochloromethane	0.94	2.5	2.86	5
1,2-Dibromoethane	6.54	5	4.2	10
Chlorobenzene	0.96	2.5	3.1	5
1,1,1,2-Tetrachloroethane	1.4	2.5	2.99	5
Ethylbenzene	1.02	2.5	3	5
m,p-Xylene	1.52	2.5	6.04	10
o-Xylene	1.13	2.5	3	5
Xylenes (total)	1.13	2.5	9.05	5
Styrene	0.71	2.5	2.97	5
Bromoform	1.37	2.5	2.56	5
Isopropylbenzene	0.92	2.5	2.9	5
trans-1,4-Dichloro-2-butene	1.9	2.5	5.17	5
Bromobenzene	0.99	2.5	3.05	5
n-Propylbenzene	0.95	2.5	2.96	5
2-Chlorotoluene	0.68	2.5	3.07	5
4-Chlorotoluene	0.83	2.5	2.99	5
1,3,5-Trimethylbenzene	1.6	2.5	2.85	5
tert-Butylbenzene	0.95	2.5	2.88	5
1,2,4-Trimethylbenzene	0.92	2.5	2.93	5
sec-Butylbenzene	0.7	2.5	2.94	5
1,3-Dichlorobenzene	0.71	2.5	3.04	5
1,4-Dichlorobenzene	0.66	2.5	3.03	5
1,2-Dichlorobenzene	0.8	2.5	2.97	5
p-Isopropyltoluene	0.63	2.5	2.77	5
n-Butylbenzene	0.58	2.5	2.84	5
1,2,3-Trichloropropane	1.31	2.5	2.82	5
1,2,4-Trichlorobenzene	1.97	2.5	4.09	5
Hexachlorobutadiene	1.13	2.5	5.72	5
1,2,3-Trichlorobenzene	0.62	2.5	3.3	5
Naphthalene	2.37	5	4.44	10

Detection Check Standard

Matrix: Soil
Method: 300.0, 9056
Preparation: DI LEACH
Date Analyzed: 12/17/2012
Date Prepared: 12/17/2012
TALs Batches: N/A
Units: mg/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Fluoride	0.9	2	1.56	2
Chloride	1.68	3	2.95	4
Nitrite	1.27	2	2.15	2
Bromide	1.06	2	2.2	2
Nitrate	0.7	1.5	2.15	2
Orthophosphate	1.76	2	1.84	2
Sulfate	1.19	2	2.32	4

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	10/22/2012
Date Prepared:	10/15/2012
Data File:	600-91191/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	20	27.03	25
>C12-C28	4.06	20	27.46	25
Total C6-C35	7.48	40	54.49	25

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Detection Check Standard

Matrix:	Water
Method:	200.7/6010
Preparation:	200.7P/3010
Date Analyzed:	12/3/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALs Batches:	94513, 94244(prep)
Units:	mg/L

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.006	0.02	0.0197	0.5
Antimony	0.0063	0.01	0.0106	0.05
Arsenic	0.0033	0.01	0.0071	0.01
Barium	0.0022	0.005	0.0052	0.02
Beryllium	0.00134	0.002	0.0039	0.005
Boron	0.0077	0.02	0.0228	0.2
Cadmium	0.00073	0.001	0.001	0.005
Calcium	0.022	0.05	0.0916	1
Chromium	0.0016	0.002	0.0035	0.01
Cobalt	0.00063	0.001	0.0008	0.01
Copper	0.0014	0.002	0.0005	0.01
Iron	0.087	0.1	0.0965	0.4
Lithium	0.0024	0.005	0.0066	0.2
Lead	0.0029	0.005	0.0053	0.01
Selenium	0.0042	0.01	0.0105	0.04
Manganese	0.00084	0.002	0.0019	0.01
Molybdenum	0.0027	0.005	0.0057	0.01
Nickel	0.00179	0.005	0.0048	0.01
Silver	0.0012	0.0025	0.0026	0.01
Sodium	0.02	0.05	0.381	1
Strontium	0.0005	0.001	0.0015	0.005
Thallium	0.0078	0.02	0.0203	0.03
Tin	0.0028	0.005	0.0053	0.01
Titanium	0.0011	0.002	0.002	0.01
Vanadium	0.0017	0.002	0.0041	0.01
Zinc	0.0022	0.005	0.0058	0.01

Job ID: 600-69726-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69726-1

Comments
The report was revised on 06/07/13 to update the sample ID for sample 600-69726-24 and again on 06/18/13 to include MTBE in the VOA analysis.

Receipt
The samples were received on 3/8/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
9056	Anions, Ion Chromatography	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69726-1	2013-RMSA-5 (0-2)	Solid	03/06/13 16:30	03/08/13 09:15
600-69726-4	2013-RMSA-7 (0-2)	Solid	03/06/13 16:42	03/08/13 09:15
600-69726-7	2013-RMSA-2 (2.5-4)	Solid	03/06/13 17:12	03/08/13 09:15
600-69726-9	2013-RMSA-6 (0-2)	Solid	03/06/13 17:15	03/08/13 09:15
600-69726-12	2013-STB-4 (0-2)	Solid	03/06/13 17:50	03/08/13 09:15
600-69726-15	2013-STB-3 (0-2)	Solid	03/06/13 17:55	03/08/13 09:15
600-69726-18	2013-STB-1 (0-2)	Solid	03/06/13 18:30	03/08/13 09:15
600-69726-21	2012-FWFS-1 (4-5)	Solid	03/06/13 18:40	03/08/13 09:15
600-69726-22	2013-RMSA-6 (2.6-3.3)	Solid	03/07/13 17:49	03/08/13 09:15
600-69726-24	2013-STB-2 (2.5-4)	Solid	03/07/13 09:15	03/08/13 09:15
600-69726-25	2013-STB-2 (4-5)	Solid	03/07/13 09:16	03/08/13 09:15
600-69726-26	Dup 6	Solid	03/07/13 09:17	03/08/13 09:15
600-69726-27	2013-SL-4 (0-0.5)	Solid	03/07/13 10:18	03/08/13 09:15
600-69726-30	2013-CUFT-7A (0-0.5)	Solid	03/07/13 10:30	03/08/13 09:15
600-69726-34	2013-CUFT -10 (0-0.5)	Solid	03/07/13 11:10	03/08/13 09:15
600-69726-38	EB-1	Water	03/07/13 11:18	03/08/13 09:15

Client Sample ID: 2013-RMSA-5 (0-2)

Lab Sample ID: 600-69726-1

Date Collected: 03/06/13 16:30
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 69.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.960		0.353	0.0362	mg/Kg	☼	03/08/13 11:21	03/11/13 12:41	1
Lead	63.4		0.706	0.148	mg/Kg	☼	03/08/13 11:21	03/11/13 12:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	69		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-RMSA-7 (0-2)

Lab Sample ID: 600-69726-4

Date Collected: 03/06/13 16:42
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.16		0.316	0.0324	mg/Kg	☼	03/08/13 11:21	03/11/13 12:43	1
Lead	2130		0.631	0.132	mg/Kg	☼	03/08/13 11:21	03/11/13 12:43	1
Arsenic	24.5		1.26	0.275	mg/Kg	☼	03/08/13 11:21	03/11/13 12:43	1
Selenium	0.669	J	2.53	0.327	mg/Kg	☼	03/08/13 11:21	03/11/13 12:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	73		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-RMSA-2 (2.5-4)

Lab Sample ID: 600-69726-7

Date Collected: 03/06/13 17:12
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1520		0.642	0.135	mg/Kg	☼	03/08/13 11:21	03/11/13 12:46	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	71		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-RMSA-6 (0-2)

Lab Sample ID: 600-69726-9

Date Collected: 03/06/13 17:15
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 72.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.00		0.328	0.0336	mg/Kg	☼	03/08/13 11:21	03/11/13 12:49	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6690		6.55	1.37	mg/Kg	☼	03/08/13 11:21	03/11/13 16:58	10

Client Sample ID: 2013-RMSA-6 (0-2)
Lab Sample ID: 600-69726-9

Date Collected: 03/06/13 17:15
Matrix: Solid
Date Received: 03/08/13 09:15

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	73		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-STB-4 (0-2)
Lab Sample ID: 600-69726-12

Date Collected: 03/06/13 17:50
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 70.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	69.5		0.338	0.0347	mg/Kg	☼	03/08/13 11:21	03/11/13 15:46	1
Arsenic	37.8		1.35	0.295	mg/Kg	☼	03/08/13 11:21	03/11/13 15:46	1
Selenium	0.866	J	2.71	0.350	mg/Kg	☼	03/08/13 11:21	03/11/13 15:46	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3720		6.76	1.42	mg/Kg	☼	03/08/13 11:21	03/11/13 17:00	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	70		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-STB-3 (0-2)
Lab Sample ID: 600-69726-15

Date Collected: 03/06/13 17:55
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 81.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	8.21		0.297	0.0304	mg/Kg	☼	03/08/13 11:21	03/11/13 12:53	1
Lead	82.1		0.594	0.124	mg/Kg	☼	03/08/13 11:21	03/11/13 12:53	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	82		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-STB-1 (0-2)
Lab Sample ID: 600-69726-18

Date Collected: 03/06/13 18:30
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 88.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	181		0.258	0.0265	mg/Kg	☼	03/08/13 11:21	03/11/13 13:16	1
Arsenic	96.6		1.03	0.225	mg/Kg	☼	03/08/13 11:21	03/11/13 13:16	1
Selenium	1.62	J	2.06	0.267	mg/Kg	☼	03/08/13 11:21	03/11/13 13:16	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7050		5.16	1.08	mg/Kg	☼	03/08/13 11:21	03/11/13 17:03	10

Client Sample ID: 2013-STB-1 (0-2)

Lab Sample ID: 600-69726-18
Date Collected: 03/06/13 18:30
Matrix: Solid
Date Received: 03/08/13 09:15

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	89		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2012-FWFS-1 (4-5)

Lab Sample ID: 600-69726-21
Date Collected: 03/06/13 18:40
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.528		0.326	0.0334	mg/Kg	☼	03/08/13 11:21	03/11/13 13:18	1
Lead	30.9		0.652	0.137	mg/Kg	☼	03/08/13 11:21	03/11/13 13:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	74		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-RMSA-6 (2.6-3.3)

Lab Sample ID: 600-69726-22
Date Collected: 03/07/13 17:49
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 70.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00236	U	0.0142	0.00236	mg/Kg	☼		03/08/13 16:54	1
Benzene	0.00151	J	0.00709	0.000894	mg/Kg	☼		03/08/13 16:54	1
Chlorobromomethane	0.00253	U	0.00709	0.00253	mg/Kg	☼		03/08/13 16:54	1
Bromoform	0.00194	U	0.00709	0.00194	mg/Kg	☼		03/08/13 16:54	1
Bromomethane	0.00118	U	0.0142	0.00118	mg/Kg	☼		03/08/13 16:54	1
2-Butanone (MEK)	0.00270	U	0.0142	0.00270	mg/Kg	☼		03/08/13 16:54	1
Carbon disulfide	0.000780	U	0.0142	0.000780	mg/Kg	☼		03/08/13 16:54	1
Carbon tetrachloride	0.00160	U	0.00709	0.00160	mg/Kg	☼		03/08/13 16:54	1
Dibromochloromethane	0.00133	U	0.00709	0.00133	mg/Kg	☼		03/08/13 16:54	1
Chlorobenzene	0.00136	U	0.00709	0.00136	mg/Kg	☼		03/08/13 16:54	1
Chloroethane	0.00199	U	0.0142	0.00199	mg/Kg	☼		03/08/13 16:54	1
Chloroform	0.000936	U	0.00709	0.000936	mg/Kg	☼		03/08/13 16:54	1
Chloromethane	0.00236	U	0.0142	0.00236	mg/Kg	☼		03/08/13 16:54	1
1,1-Dichloroethane	0.00123	U	0.00709	0.00123	mg/Kg	☼		03/08/13 16:54	1
1,2-Dichloroethane	0.00128	U	0.00709	0.00128	mg/Kg	☼		03/08/13 16:54	1
1,1-Dichloroethene	0.00173	U	0.00709	0.00173	mg/Kg	☼		03/08/13 16:54	1
cis-1,2-Dichloroethene	0.00118	U	0.00709	0.00118	mg/Kg	☼		03/08/13 16:54	1
trans-1,2-Dichloroethene	0.00162	U	0.00709	0.00162	mg/Kg	☼		03/08/13 16:54	1
1,2-Dichloropropane	0.00101	U	0.00709	0.00101	mg/Kg	☼		03/08/13 16:54	1
cis-1,3-Dichloropropene	0.000766	U	0.00709	0.000766	mg/Kg	☼		03/08/13 16:54	1
trans-1,3-Dichloropropene	0.000823	U	0.00709	0.000823	mg/Kg	☼		03/08/13 16:54	1
Ethylbenzene	0.00145	U	0.00709	0.00145	mg/Kg	☼		03/08/13 16:54	1
2-Hexanone	0.00143	U	0.0142	0.00143	mg/Kg	☼		03/08/13 16:54	1
Methylene Chloride	0.00311	U	0.0142	0.00311	mg/Kg	☼		03/08/13 16:54	1
4-Methyl-2-pentanone (MIBK)	0.00209	U	0.0142	0.00209	mg/Kg	☼		03/08/13 16:54	1
Styrene	0.00101	U	0.00709	0.00101	mg/Kg	☼		03/08/13 16:54	1
1,1,2,2-Tetrachloroethane	0.00123	U	0.00709	0.00123	mg/Kg	☼		03/08/13 16:54	1

Client Sample ID: 2013-RMSA-6 (2.6-3.3)

Lab Sample ID: 600-69726-22

Date Collected: 03/07/13 17:49
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 70.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.00101	U	0.00709	0.00101	mg/Kg	☼		03/08/13 16:54	1
Toluene	0.00196	U	0.00709	0.00196	mg/Kg	☼		03/08/13 16:54	1
1,1,1-Trichloroethane	0.00105	U	0.00709	0.00105	mg/Kg	☼		03/08/13 16:54	1
1,1,2-Trichloroethane	0.00104	U	0.00709	0.00104	mg/Kg	☼		03/08/13 16:54	1
Trichloroethene	0.00199	U	0.00709	0.00199	mg/Kg	☼		03/08/13 16:54	1
Vinyl acetate	0.00132	U	0.00709	0.00132	mg/Kg	☼		03/08/13 16:54	1
Vinyl chloride	0.00128	U	0.0142	0.00128	mg/Kg	☼		03/08/13 16:54	1
o-Xylene	0.00160	U	0.00709	0.00160	mg/Kg	☼		03/08/13 16:54	1
m-Xylene & p-Xylene	0.00216	U	0.0142	0.00216	mg/Kg	☼		03/08/13 16:54	1
Xylenes, Total	0.00160	U	0.00709	0.00160	mg/Kg	☼		03/08/13 16:54	1
Bromodichloromethane	0.000936	U	0.00709	0.000936	mg/Kg	☼		03/08/13 16:54	1
1,2-Dichloroethene, Total	0.00270	U	0.0142	0.00270	mg/Kg	☼		03/08/13 16:54	1
Methyl tert-butyl ether	0.00260	U	0.00709	0.00260	mg/Kg	☼		03/08/13 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*50 - 130*		*03/08/13 16:54*	*1*
Dibromofluoromethane	*72*		*68 - 140*		*03/08/13 16:54*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*		*03/08/13 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*		*03/08/13 16:54*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.39	U	14.2	5.39	mg/Kg	☼	03/08/13 11:10	03/09/13 10:24	1
>C12-C28	5.75	U	14.2	5.75	mg/Kg	☼	03/08/13 11:10	03/09/13 10:24	1
>C28-C35	5.75	U	14.2	5.75	mg/Kg	☼	03/08/13 11:10	03/09/13 10:24	1
C6-C35	10.6	U	14.2	10.6	mg/Kg	☼	03/08/13 11:10	03/09/13 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*70 - 130*	*03/08/13 11:10*	*03/09/13 10:24*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30**		1.0	1.0	%			03/09/13 16:14	1
Percent Solids	**70**		1.0	1.0	%			03/09/13 16:14	1

Client Sample ID: 2013-STB-2 (2.5-4)

Lab Sample ID: 600-69726-24

Date Collected: 03/07/13 09:15
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 89.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**1.13**		0.255	0.0262	mg/Kg	☼	03/08/13 11:21	03/11/13 13:21	1
Lead	**150**		0.510	0.107	mg/Kg	☼	03/08/13 11:21	03/11/13 13:21	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10**		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	**90**		1.0	1.0	%			03/08/13 14:32	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Client Sample ID: 2013-STB-2 (4-5)
Date Collected: 03/07/13 09:16
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-25
Matrix: Solid
Percent Solids: 73.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.126**		0.0137	0.00227	mg/Kg	☼		03/08/13 17:17	1
Benzene	0.000862	U	0.00684	0.000862	mg/Kg	☼		03/08/13 17:17	1
Chlorobromomethane	0.00243	U	0.00684	0.00243	mg/Kg	☼		03/08/13 17:17	1
Bromoform	0.00187	U	0.00684	0.00187	mg/Kg	☼		03/08/13 17:17	1
Bromomethane	0.00114	U	0.0137	0.00114	mg/Kg	☼		03/08/13 17:17	1
2-Butanone (MEK)	**0.0266**		0.0137	0.00260	mg/Kg	☼		03/08/13 17:17	1
Carbon disulfide	0.000752	U	0.0137	0.000752	mg/Kg	☼		03/08/13 17:17	1
Carbon tetrachloride	0.00155	U	0.00684	0.00155	mg/Kg	☼		03/08/13 17:17	1
Dibromochloromethane	0.00129	U	0.00684	0.00129	mg/Kg	☼		03/08/13 17:17	1
Chlorobenzene	0.00131	U	0.00684	0.00131	mg/Kg	☼		03/08/13 17:17	1
Chloroethane	0.00191	U	0.0137	0.00191	mg/Kg	☼		03/08/13 17:17	1
Chloroform	0.000903	U	0.00684	0.000903	mg/Kg	☼		03/08/13 17:17	1
Chloromethane	0.00227	U	0.0137	0.00227	mg/Kg	☼		03/08/13 17:17	1
1,1-Dichloroethane	0.00119	U	0.00684	0.00119	mg/Kg	☼		03/08/13 17:17	1
1,2-Dichloroethane	0.00123	U	0.00684	0.00123	mg/Kg	☼		03/08/13 17:17	1
1,1-Dichloroethene	0.00167	U	0.00684	0.00167	mg/Kg	☼		03/08/13 17:17	1
cis-1,2-Dichloroethene	0.00114	U	0.00684	0.00114	mg/Kg	☼		03/08/13 17:17	1
trans-1,2-Dichloroethene	0.00156	U	0.00684	0.00156	mg/Kg	☼		03/08/13 17:17	1
1,2-Dichloropropane	0.000971	U	0.00684	0.000971	mg/Kg	☼		03/08/13 17:17	1
cis-1,3-Dichloropropene	0.000738	U	0.00684	0.000738	mg/Kg	☼		03/08/13 17:17	1
trans-1,3-Dichloropropene	0.000793	U	0.00684	0.000793	mg/Kg	☼		03/08/13 17:17	1
Ethylbenzene	0.00139	U	0.00684	0.00139	mg/Kg	☼		03/08/13 17:17	1
2-Hexanone	0.00138	U	0.0137	0.00138	mg/Kg	☼		03/08/13 17:17	1
Methylene Chloride	0.00299	U	0.0137	0.00299	mg/Kg	☼		03/08/13 17:17	1
4-Methyl-2-pentanone (MIBK)	0.00201	U	0.0137	0.00201	mg/Kg	☼		03/08/13 17:17	1
Styrene	0.000971	U	0.00684	0.000971	mg/Kg	☼		03/08/13 17:17	1
1,1,2,2-Tetrachloroethane	0.00119	U	0.00684	0.00119	mg/Kg	☼		03/08/13 17:17	1
Tetrachloroethene	0.000971	U	0.00684	0.000971	mg/Kg	☼		03/08/13 17:17	1
Toluene	0.00189	U	0.00684	0.00189	mg/Kg	☼		03/08/13 17:17	1
1,1,1-Trichloroethane	0.00101	U	0.00684	0.00101	mg/Kg	☼		03/08/13 17:17	1
1,1,2-Trichloroethane	0.000998	U	0.00684	0.000998	mg/Kg	☼		03/08/13 17:17	1
Trichloroethene	0.00191	U	0.00684	0.00191	mg/Kg	☼		03/08/13 17:17	1
Vinyl acetate	0.00127	U	0.00684	0.00127	mg/Kg	☼		03/08/13 17:17	1
Vinyl chloride	0.00123	U	0.0137	0.00123	mg/Kg	☼		03/08/13 17:17	1
o-Xylene	0.00155	U	0.00684	0.00155	mg/Kg	☼		03/08/13 17:17	1
m-Xylene & p-Xylene	0.00208	U	0.0137	0.00208	mg/Kg	☼		03/08/13 17:17	1
Xylenes, Total	0.00155	U	0.00684	0.00155	mg/Kg	☼		03/08/13 17:17	1
Bromodichloromethane	0.000903	U	0.00684	0.000903	mg/Kg	☼		03/08/13 17:17	1
1,2-Dichloroethene, Total	0.00260	U	0.0137	0.00260	mg/Kg	☼		03/08/13 17:17	1
Methyl tert-butyl ether	0.00250	U	0.00684	0.00250	mg/Kg	☼		03/08/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*50 - 130*		*03/08/13 17:17*	*1*
Dibromofluoromethane	*77*		*68 - 140*		*03/08/13 17:17*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*		*03/08/13 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*61 - 130*		*03/08/13 17:17*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	5.18	U	13.6	5.18	mg/Kg	☼	03/08/13 11:10	03/09/13 11:01	1

Client Sample ID: 2013-STB-2 (4-5)

Lab Sample ID: 600-69726-25

Date Collected: 03/07/13 09:16
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C12-C28	5.53	U	13.6	5.53	mg/Kg	☼	03/08/13 11:10	03/09/13 11:01	1
>C28-C35	5.53	U	13.6	5.53	mg/Kg	☼	03/08/13 11:10	03/09/13 11:01	1
C6-C35	10.2	U	13.6	10.2	mg/Kg	☼	03/08/13 11:10	03/09/13 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*70 - 130*	*03/08/13 11:10*	*03/09/13 11:01*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			03/09/13 16:14	1
Percent Solids	73		1.0	1.0	%			03/09/13 16:14	1

Client Sample ID: Dup 6

Lab Sample ID: 600-69726-26

Date Collected: 03/07/13 09:17
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 83.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.43		0.279	0.0286	mg/Kg	☼	03/08/13 11:21	03/11/13 13:23	1
Lead	773		0.558	0.117	mg/Kg	☼	03/08/13 11:21	03/11/13 13:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	84		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-SL-4 (0-0.5)

Lab Sample ID: 600-69726-27

Date Collected: 03/07/13 10:18
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 85.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	82.3		0.572	0.120	mg/Kg	☼	03/08/13 11:21	03/11/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	86		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-CUFT-7A (0-0.5)

Lab Sample ID: 600-69726-30

Date Collected: 03/07/13 10:30
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 78.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.83		0.305	0.0313	mg/Kg	☼	03/08/13 11:21	03/11/13 13:28	1
Lead	80.2		0.610	0.128	mg/Kg	☼	03/08/13 11:21	03/11/13 13:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/08/13 14:32	1

Client Sample ID: 2013-CUFT-7A (0-0.5)

Lab Sample ID: 600-69726-30

Date Collected: 03/07/13 10:30
Matrix: Solid
Date Received: 03/08/13 09:15

General Chemistry (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		1.0	1.0	%			03/08/13 14:32	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	371		6.41	1.52	mg/Kg	☼		03/08/13 19:34	1

Client Sample ID: 2013-CUFT -10 (0-0.5)

Lab Sample ID: 600-69726-34

Date Collected: 03/07/13 11:10
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 76.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.53		0.317	0.0325	mg/Kg	☼	03/08/13 11:21	03/11/13 13:31	1
Lead	319		0.633	0.133	mg/Kg	☼	03/08/13 11:21	03/11/13 13:31	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			03/08/13 14:32	1
Percent Solids	77		1.0	1.0	%			03/08/13 14:32	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	68.2		6.52	1.55	mg/Kg	☼		03/08/13 20:09	1

Client Sample ID: EB-1

Lab Sample ID: 600-69726-38

Date Collected: 03/07/13 11:18
Matrix: Water
Date Received: 03/08/13 09:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000500	J	0.00500	0.000350	mg/L		03/08/13 09:05	03/11/13 14:38	1
Lead	0.0562		0.0100	0.00290	mg/L		03/08/13 09:05	03/11/13 14:38	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-69726-22	2013-RMSA-6 (2.6-3.3)	90	72	110	82
600-69726-25	2013-STB-2 (4-5)	93	77	108	77
LCS 600-101255/10	Lab Control Sample	90	83	107	83
MB 600-101255/11	Method Blank	83	75	103	72

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(70-130)
600-69726-22	2013-RMSA-6 (2.6-3.3)	103
600-69726-25	2013-STB-2 (4-5)	98
600-69726-25 MS	2013-STB-2 (4-5)	110
600-69726-25 MSD	2013-STB-2 (4-5)	108
LCS 600-101212/2-A	Lab Control Sample	121
MB 600-101212/1-A	Method Blank	109

Surrogate Legend

OTPH = o-Terphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-101255/11
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			03/08/13 14:55	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			03/08/13 14:55	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			03/08/13 14:55	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			03/08/13 14:55	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			03/08/13 14:55	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			03/08/13 14:55	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			03/08/13 14:55	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			03/08/13 14:55	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			03/08/13 14:55	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			03/08/13 14:55	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			03/08/13 14:55	1
Chloroform	0.000660	U	0.00500	0.000660	mg/Kg			03/08/13 14:55	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			03/08/13 14:55	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			03/08/13 14:55	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			03/08/13 14:55	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			03/08/13 14:55	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			03/08/13 14:55	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			03/08/13 14:55	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			03/08/13 14:55	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			03/08/13 14:55	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			03/08/13 14:55	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			03/08/13 14:55	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			03/08/13 14:55	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			03/08/13 14:55	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			03/08/13 14:55	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			03/08/13 14:55	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			03/08/13 14:55	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			03/08/13 14:55	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			03/08/13 14:55	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			03/08/13 14:55	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			03/08/13 14:55	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			03/08/13 14:55	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			03/08/13 14:55	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			03/08/13 14:55	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			03/08/13 14:55	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			03/08/13 14:55	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			03/08/13 14:55	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			03/08/13 14:55	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			03/08/13 14:55	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			03/08/13 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*83*		*50 - 130*		*03/08/13 14:55*	*1*
Dibromofluoromethane	*75*		*68 - 140*		*03/08/13 14:55*	*1*
4-Bromofluorobenzene	*103*		*57 - 140*		*03/08/13 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*72*		*61 - 130*		*03/08/13 14:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-101255/10
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.07748		mg/Kg		77	44 - 136
Benzene	0.0500	0.04820		mg/Kg		96	66 - 128
Chlorobromomethane	0.0500	0.04697		mg/Kg		94	60 - 140
Bromoform	0.0500	0.04731		mg/Kg		95	50 - 130
Bromomethane	0.0500	0.04361		mg/Kg		87	28 - 164
2-Butanone (MEK)	0.100	0.08439		mg/Kg		84	42 - 186
Carbon disulfide	0.0500	0.04297		mg/Kg		86	53 - 176
Carbon tetrachloride	0.0500	0.04822		mg/Kg		96	63 - 132
Dibromochloromethane	0.0500	0.04506		mg/Kg		90	63 - 125
Chlorobenzene	0.0500	0.05127		mg/Kg		103	67 - 126
Chloroethane	0.0500	0.04707		mg/Kg		94	30 - 136
Chloroform	0.0500	0.04613		mg/Kg		92	67 - 126
Chloromethane	0.0500	0.04987		mg/Kg		100	21 - 153
1,1-Dichloroethane	0.0500	0.05102		mg/Kg		102	64 - 130
1,2-Dichloroethane	0.0500	0.04741		mg/Kg		95	61 - 135
1,1-Dichloroethene	0.0500	0.04788		mg/Kg		96	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04637		mg/Kg		93	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04834		mg/Kg		97	65 - 130
1,2-Dichloropropane	0.0500	0.04958		mg/Kg		99	71 - 122
cis-1,3-Dichloropropene	0.0500	0.04459		mg/Kg		89	66 - 129
trans-1,3-Dichloropropene	0.0500	0.05208		mg/Kg		104	66 - 134
Ethylbenzene	0.0500	0.04984		mg/Kg		100	64 - 127
2-Hexanone	0.100	0.09429		mg/Kg		94	52 - 142
Methylene Chloride	0.0500	0.03519		mg/Kg		70	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.08738		mg/Kg		87	52 - 146
Styrene	0.0500	0.05187		mg/Kg		104	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.04976		mg/Kg		100	59 - 134
Tetrachloroethene	0.0500	0.05645		mg/Kg		113	69 - 125
Toluene	0.0500	0.04773		mg/Kg		95	69 - 125
1,1,1-Trichloroethane	0.0500	0.04764		mg/Kg		95	70 - 127
1,1,2-Trichloroethane	0.0500	0.04899		mg/Kg		98	67 - 124
Trichloroethene	0.0500	0.04964		mg/Kg		99	70 - 136
Vinyl acetate	0.0500	0.03978		mg/Kg		80	54 - 136
Vinyl chloride	0.0500	0.04896		mg/Kg		98	28 - 159
o-Xylene	0.0500	0.05322		mg/Kg		106	64 - 132
m-Xylene & p-Xylene	0.100	0.1035		mg/Kg		103	65 - 128
Xylenes, Total	0.150	0.1567		mg/Kg		104	65 - 129
Bromodichloromethane	0.0500	0.04374		mg/Kg		87	68 - 121
1,2-Dichloroethene, Total	0.100	0.09471		mg/Kg		95	62 - 130
Methyl tert-butyl ether	0.0500	0.04720		mg/Kg		94	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*50 - 130*
Dibromofluoromethane	*83*		*68 - 140*
4-Bromofluorobenzene	*107*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-101212/1-A
Matrix: Solid
Analysis Batch: 101336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101212

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	10.0	3.80	mg/Kg		03/08/13 11:10	03/09/13 06:42	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		03/08/13 11:10	03/09/13 06:42	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		03/08/13 11:10	03/09/13 06:42	1
C6-C35	7.48	U	10.0	7.48	mg/Kg		03/08/13 11:10	03/09/13 06:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*109*		*70 - 130*	*03/08/13 11:10*	*03/09/13 06:42*	*1*

Lab Sample ID: LCS 600-101212/2-A
Matrix: Solid
Analysis Batch: 101336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12			250	260.9		mg/Kg		104	75 - 125		
>C12-C28			250	293.0		mg/Kg		117	75 - 125		
C6-C35			500	554.0		mg/Kg		111	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: 600-69726-25 MS
Matrix: Solid
Analysis Batch: 101336

Client Sample ID: 2013-STB-2 (4-5)
Prep Type: Total/NA
Prep Batch: 101212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12	5.18	U	341	340.9		mg/Kg	☼	100	75 - 125		
>C12-C28	5.53	U	341	371.0		mg/Kg	☼	109	75 - 125		
C6-C35	10.2	U	682	711.9		mg/Kg	☼	104	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 600-69726-25 MSD
Matrix: Solid
Analysis Batch: 101336

Client Sample ID: 2013-STB-2 (4-5)
Prep Type: Total/NA
Prep Batch: 101212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	5.18	U	341	339.9		mg/Kg	☼	100	75 - 125	0	20
>C12-C28	5.53	U	341	377.4		mg/Kg	☼	111	75 - 125	2	20
C6-C35	10.2	U	682	717.3		mg/Kg	☼	105	75 - 125	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*108*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101195/1-A
Matrix: Water
Analysis Batch: 101385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101195

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000350	U	0.00500	0.000350	mg/L		03/08/13 09:05	03/11/13 15:44	1
Lead	0.00290	U	0.0100	0.00290	mg/L		03/08/13 09:05	03/11/13 15:44	1

Lab Sample ID: LCS 600-101195/2-A
Matrix: Water
Analysis Batch: 101385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.5225		mg/L		105	80 - 120
Lead	1.00	1.044		mg/L		104	80 - 120

Lab Sample ID: MB 600-101214/1-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101214

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/08/13 11:21	03/11/13 12:36	1
Lead	0.105	U	0.500	0.105	mg/Kg		03/08/13 11:21	03/11/13 12:36	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		03/08/13 11:21	03/11/13 12:36	1
Selenium	0.259	U	2.00	0.259	mg/Kg		03/08/13 11:21	03/11/13 12:36	1

Lab Sample ID: LCSSRM 600-101214/2-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101214

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	104.0		mg/Kg		101.0	83.6 - 115.5
Lead	76.9	79.36		mg/Kg		103.2	81.3 - 118.7
Arsenic	168	172.1		mg/Kg		102.4	83.3 - 117.3
Selenium	126	123.3		mg/Kg		97.9	80.2 - 120.6

Lab Sample ID: 600-69726-15 MS
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: 2013-STB-3 (0-2)
Prep Type: Total/NA
Prep Batch: 101214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	8.21		30.6	51.92	N	mg/Kg	☼	143	75 - 125
Lead	82.1		61.2	342.7	N	mg/Kg	☼	426	75 - 125
Arsenic	16.6		61.2	70.02		mg/Kg	☼	87	75 - 125
Selenium	1.29		61.2	54.43		mg/Kg	☼	87	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-69726-15 MSD — **Client Sample ID: 2013-STB-3 (0-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101385 — **Prep Batch: 101214**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	8.21		30.3	41.62	N	mg/Kg	☼	110	75 - 125	22	20
Lead	82.1		60.5	229.9	N	mg/Kg	☼	244	75 - 125	39	20
Arsenic	16.6		60.5	76.29		mg/Kg	☼	99	75 - 125	9	20
Selenium	1.29		60.5	55.06		mg/Kg	☼	89	75 - 125	1	20

Lab Sample ID: 600-69726-21 MS — **Client Sample ID: 2012-FWFS-1 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101385 — **Prep Batch: 101214**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.528		32.9	31.50		mg/Kg	☼	94	75 - 125
Lead	30.9		65.8	95.17		mg/Kg	☼	98	75 - 125
Arsenic	9.89		65.8	71.87		mg/Kg	☼	94	75 - 125
Selenium	0.548		65.8	55.76		mg/Kg	☼	84	75 - 125

Lab Sample ID: 600-69726-21 MSD — **Client Sample ID: 2012-FWFS-1 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101385 — **Prep Batch: 101214**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.528		33.2	32.39		mg/Kg	☼	96	75 - 125	3	20
Lead	30.9		66.5	97.90		mg/Kg	☼	101	75 - 125	3	20
Arsenic	9.89		66.5	72.91		mg/Kg	☼	95	75 - 125	1	20
Selenium	0.548		66.5	56.62		mg/Kg	☼	84	75 - 125	2	20

Lab Sample ID: 600-69726-15 DU — **Client Sample ID: 2013-STB-3 (0-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101385 — **Prep Batch: 101214**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	8.21		22.75	F	mg/Kg	☼	94	20
Lead	82.1		263.1	F	mg/Kg	☼	105	20
Arsenic	16.6		18.63		mg/Kg	☼	12	20
Selenium	1.29		1.573	J	mg/Kg	☼	20	20

Lab Sample ID: 600-69726-21 DU — **Client Sample ID: 2012-FWFS-1 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101385 — **Prep Batch: 101214**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.528		0.4610		mg/Kg	☼	14	20
Lead	30.9		50.64	F	mg/Kg	☼	49	20
Arsenic	9.89		9.375		mg/Kg	☼	5	20
Selenium	0.548		0.6847	J	mg/Kg	☼	22	20

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 600-101238/1-A
Matrix: Solid
Analysis Batch: 101265

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.19	U	5.00	1.19	mg/Kg			03/08/13 16:39	1

Lab Sample ID: LCS 600-101238/2-A
Matrix: Solid
Analysis Batch: 101265

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			200	200.5		mg/Kg		100	90 - 110		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69726-7 DU
Matrix: Solid
Analysis Batch: 101237

Client Sample ID: 2013-RMSA-2 (2.5-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	29			26		%				9	20
Percent Solids	71			74		%				4	20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	10.0	4.06	mg/Kg	TX 1005
>C28-C35	10.0	4.06	mg/Kg	TX 1005
C6-C12	10.0	3.80	mg/Kg	TX 1005
C6-C35	10.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Cadmium	0.00500	0.000350	mg/L	6010B
Lead	0.500	0.105	mg/Kg	6010B
Lead	0.0100	0.00290	mg/L	6010B
Selenium	2.00	0.259	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

General Chemistry - Soluble

Analyte	MQL	MDL	Units	Method
Sulfate	5.00	1.19	mg/Kg	9056

GC/MS VOA

Analysis Batch: 101255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-22	2013-RMSA-6 (2.6-3.3)	Total/NA	Solid	8260B	
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	8260B	
LCS 600-101255/10	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-101255/11	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 101212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-22	2013-RMSA-6 (2.6-3.3)	Total/NA	Solid	TX_1005_S_Prep	
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	TX_1005_S_Prep	
600-69726-25 MS	2013-STB-2 (4-5)	Total/NA	Solid	TX_1005_S_Prep	
600-69726-25 MSD	2013-STB-2 (4-5)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-101212/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-101212/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 101336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-22	2013-RMSA-6 (2.6-3.3)	Total/NA	Solid	TX 1005	101212
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	TX 1005	101212
600-69726-25 MS	2013-STB-2 (4-5)	Total/NA	Solid	TX 1005	101212
600-69726-25 MSD	2013-STB-2 (4-5)	Total/NA	Solid	TX 1005	101212
LCS 600-101212/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	101212
MB 600-101212/1-A	Method Blank	Total/NA	Solid	TX 1005	101212

Metals

Prep Batch: 101195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-38	EB-1	Total/NA	Water	3010A	
LCS 600-101195/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 600-101195/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 101214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-1	2013-RMSA-5 (0-2)	Total/NA	Solid	3050B	
600-69726-4	2013-RMSA-7 (0-2)	Total/NA	Solid	3050B	
600-69726-7	2013-RMSA-2 (2.5-4)	Total/NA	Solid	3050B	
600-69726-9 - DL	2013-RMSA-6 (0-2)	Total/NA	Solid	3050B	
600-69726-9	2013-RMSA-6 (0-2)	Total/NA	Solid	3050B	
600-69726-12 - DL	2013-STB-4 (0-2)	Total/NA	Solid	3050B	
600-69726-12	2013-STB-4 (0-2)	Total/NA	Solid	3050B	
600-69726-15	2013-STB-3 (0-2)	Total/NA	Solid	3050B	
600-69726-15 DU	2013-STB-3 (0-2)	Total/NA	Solid	3050B	
600-69726-15 MS	2013-STB-3 (0-2)	Total/NA	Solid	3050B	
600-69726-15 MSD	2013-STB-3 (0-2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 101214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-18 - DL	2013-STB-1 (0-2)	Total/NA	Solid	3050B	
600-69726-18	2013-STB-1 (0-2)	Total/NA	Solid	3050B	
600-69726-21	2012-FWFS-1 (4-5)	Total/NA	Solid	3050B	
600-69726-21 DU	2012-FWFS-1 (4-5)	Total/NA	Solid	3050B	
600-69726-21 MS	2012-FWFS-1 (4-5)	Total/NA	Solid	3050B	
600-69726-21 MSD	2012-FWFS-1 (4-5)	Total/NA	Solid	3050B	
600-69726-24	2013-STB-2 (2.5-4)	Total/NA	Solid	3050B	
600-69726-26	Dup 6	Total/NA	Solid	3050B	
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	3050B	
600-69726-30	2013-CUFT-7A (0-0.5)	Total/NA	Solid	3050B	
600-69726-34	2013-CUFT -10 (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-101214/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101214/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-1	2013-RMSA-5 (0-2)	Total/NA	Solid	6010B	101214
600-69726-4	2013-RMSA-7 (0-2)	Total/NA	Solid	6010B	101214
600-69726-7	2013-RMSA-2 (2.5-4)	Total/NA	Solid	6010B	101214
600-69726-9 - DL	2013-RMSA-6 (0-2)	Total/NA	Solid	6010B	101214
600-69726-9	2013-RMSA-6 (0-2)	Total/NA	Solid	6010B	101214
600-69726-12 - DL	2013-STB-4 (0-2)	Total/NA	Solid	6010B	101214
600-69726-12	2013-STB-4 (0-2)	Total/NA	Solid	6010B	101214
600-69726-15	2013-STB-3 (0-2)	Total/NA	Solid	6010B	101214
600-69726-15 DU	2013-STB-3 (0-2)	Total/NA	Solid	6010B	101214
600-69726-15 MS	2013-STB-3 (0-2)	Total/NA	Solid	6010B	101214
600-69726-15 MSD	2013-STB-3 (0-2)	Total/NA	Solid	6010B	101214
600-69726-18 - DL	2013-STB-1 (0-2)	Total/NA	Solid	6010B	101214
600-69726-18	2013-STB-1 (0-2)	Total/NA	Solid	6010B	101214
600-69726-21	2012-FWFS-1 (4-5)	Total/NA	Solid	6010B	101214
600-69726-21 DU	2012-FWFS-1 (4-5)	Total/NA	Solid	6010B	101214
600-69726-21 MS	2012-FWFS-1 (4-5)	Total/NA	Solid	6010B	101214
600-69726-21 MSD	2012-FWFS-1 (4-5)	Total/NA	Solid	6010B	101214
600-69726-24	2013-STB-2 (2.5-4)	Total/NA	Solid	6010B	101214
600-69726-26	Dup 6	Total/NA	Solid	6010B	101214
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	6010B	101214
600-69726-30	2013-CUFT-7A (0-0.5)	Total/NA	Solid	6010B	101214
600-69726-34	2013-CUFT -10 (0-0.5)	Total/NA	Solid	6010B	101214
600-69726-38	EB-1	Total/NA	Water	6010B	101195
LCS 600-101195/2-A	Lab Control Sample	Total/NA	Water	6010B	101195
LCSSRM 600-101214/2-A	Lab Control Sample	Total/NA	Solid	6010B	101214
MB 600-101195/1-A	Method Blank	Total/NA	Water	6010B	101195
MB 600-101214/1-A	Method Blank	Total/NA	Solid	6010B	101214

General Chemistry

Analysis Batch: 101237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-1	2013-RMSA-5 (0-2)	Total/NA	Solid	Moisture	
600-69726-4	2013-RMSA-7 (0-2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 101237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-7	2013-RMSA-2 (2.5-4)	Total/NA	Solid	Moisture	
600-69726-7 DU	2013-RMSA-2 (2.5-4)	Total/NA	Solid	Moisture	
600-69726-9	2013-RMSA-6 (0-2)	Total/NA	Solid	Moisture	
600-69726-12	2013-STB-4 (0-2)	Total/NA	Solid	Moisture	
600-69726-15	2013-STB-3 (0-2)	Total/NA	Solid	Moisture	
600-69726-18	2013-STB-1 (0-2)	Total/NA	Solid	Moisture	
600-69726-21	2012-FWFS-1 (4-5)	Total/NA	Solid	Moisture	
600-69726-21 MS	2012-FWFS-1 (4-5)	Total/NA	Solid	Moisture	
600-69726-21 MSD	2012-FWFS-1 (4-5)	Total/NA	Solid	Moisture	
600-69726-24	2013-STB-2 (2.5-4)	Total/NA	Solid	Moisture	
600-69726-26	Dup 6	Total/NA	Solid	Moisture	
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	Moisture	
600-69726-30	2013-CUFT-7A (0-0.5)	Total/NA	Solid	Moisture	
600-69726-34	2013-CUFT -10 (0-0.5)	Total/NA	Solid	Moisture	

Leach Batch: 101238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-30	2013-CUFT-7A (0-0.5)	Soluble	Solid	DI Leach	
600-69726-34	2013-CUFT -10 (0-0.5)	Soluble	Solid	DI Leach	
LCS 600-101238/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 600-101238/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 101265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-30	2013-CUFT-7A (0-0.5)	Soluble	Solid	9056	101238
600-69726-34	2013-CUFT -10 (0-0.5)	Soluble	Solid	9056	101238
LCS 600-101238/2-A	Lab Control Sample	Soluble	Solid	9056	101238
MB 600-101238/1-A	Method Blank	Soluble	Solid	9056	101238

Analysis Batch: 101283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-22	2013-RMSA-6 (2.6-3.3)	Total/NA	Solid	Moisture	
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Client Sample ID: 2013-RMSA-5 (0-2)

Lab Sample ID: 600-69726-1

Date Collected: 03/06/13 16:30
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 12:41	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-RMSA-7 (0-2)

Lab Sample ID: 600-69726-4

Date Collected: 03/06/13 16:42
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 12:43	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-RMSA-2 (2.5-4)

Lab Sample ID: 600-69726-7

Date Collected: 03/06/13 17:12
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 12:46	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-RMSA-6 (0-2)

Lab Sample ID: 600-69726-9

Date Collected: 03/06/13 17:15
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101385	03/11/13 16:58	TWR	TAL HOU
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 12:49	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-STB-4 (0-2)

Lab Sample ID: 600-69726-12

Date Collected: 03/06/13 17:50
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101385	03/11/13 17:00	TWR	TAL HOU
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 15:46	TWR	TAL HOU

Client Sample ID: 2013-STB-4 (0-2)

Lab Sample ID: 600-69726-12

Date Collected: 03/06/13 17:50

Matrix: Solid

Date Received: 03/08/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-STB-3 (0-2)

Lab Sample ID: 600-69726-15

Date Collected: 03/06/13 17:55

Matrix: Solid

Date Received: 03/08/13 09:15

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 12:53	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-STB-1 (0-2)

Lab Sample ID: 600-69726-18

Date Collected: 03/06/13 18:30

Matrix: Solid

Date Received: 03/08/13 09:15

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101385	03/11/13 17:03	TWR	TAL HOU
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:16	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2012-FWFS-1 (4-5)

Lab Sample ID: 600-69726-21

Date Collected: 03/06/13 18:40

Matrix: Solid

Date Received: 03/08/13 09:15

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:18	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-RMSA-6 (2.6-3.3)

Lab Sample ID: 600-69726-22

Date Collected: 03/07/13 17:49

Matrix: Solid

Date Received: 03/08/13 09:15

Percent Solids: 70.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101255	03/08/13 16:54	WS	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			101212	03/08/13 11:10	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	101336	03/09/13 10:24	RV	TAL HOU
Total/NA	Analysis	Moisture		1	101283	03/09/13 16:14	MB	TAL HOU

Client Sample ID: 2013-STB-2 (2.5-4)

Lab Sample ID: 600-69726-24

Date Collected: 03/07/13 09:15
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:21	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-STB-2 (4-5)

Lab Sample ID: 600-69726-25

Date Collected: 03/07/13 09:16
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101255	03/08/13 17:17	WS	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			101212	03/08/13 11:10	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	101336	03/09/13 11:01	RV	TAL HOU
Total/NA	Analysis	Moisture		1	101283	03/09/13 16:14	MB	TAL HOU

Client Sample ID: Dup 6

Lab Sample ID: 600-69726-26

Date Collected: 03/07/13 09:17
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:23	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-SL-4 (0-0.5)

Lab Sample ID: 600-69726-27

Date Collected: 03/07/13 10:18
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:26	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU

Client Sample ID: 2013-CUFT-7A (0-0.5)

Lab Sample ID: 600-69726-30

Date Collected: 03/07/13 10:30
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:28	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU
Soluble	Leach	DI Leach			101238	03/08/13 11:30	SUP	TAL HOU
Soluble	Analysis	9056		1	101265	03/08/13 19:34	SUP	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Client Sample ID: 2013-CUFT -10 (0-0.5)

Lab Sample ID: 600-69726-34

Date Collected: 03/07/13 11:10
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:31	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101237	03/08/13 14:32	AS	TAL HOU
Soluble	Leach	DI Leach			101238	03/08/13 11:30	SUP	TAL HOU
Soluble	Analysis	9056		1	101265	03/08/13 20:09	SUP	TAL HOU

Client Sample ID: EB-1

Lab Sample ID: 600-69726-38

Date Collected: 03/07/13 11:18
Matrix: Water
Date Received: 03/08/13 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			101195	03/08/13 09:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 14:38	TWR	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

No. 44285

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Loc: 600
1 69726

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: Lead	Lead, Cadmium	Lead, Cadmium, Arsenic, Silica	REMARKS/PRECAUTIONS.
	2013-RMSA-5(0-2)	3.6.13	1630	S	4oz	—	1		X		
	2013-RMSA-5(2-4)		1631						X		HOLD
	2013-RMSA-5(4-5)		1632						X		HOLD
	2013-RMSA-7(0-2)		1642						X		#
	2013-RMSA-7(2-4)		1643						X		HOLD
	2013-RMSA-7(4-5)		1644						X		HOLD
	~~2013-RMSA-2(0-2)~~							X			CS.
	2013-RMSA-2(2-4)		1712					X			~~HOLD~~ CS
	2013-RMSA-2(4-5)		1713					X			HOLD
	2013-RMSA-6(0-2)		1715						X		
	2013-RMSA-6(2-4)		1716				1 cont.		X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: T. Jennings	TIME 1300	PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	0915
PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulsinbark / TAH	TIME 03/08/13

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~
Houston

No. 44286

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512. 671. 3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-6(4-5)	3.6.13	1717	S	4oz	—	1		X		HOLD
	2013-STB-4(0-2)		1750							X	
	2013-STB-4(2-4)		1751							X	HOLD
	2013-STB-4(4-5)		1752							X	HOLD
	2013-STB-3(0-2)		1755							X	
	2013-STB-3(2-4)		1756							X	HOLD
	2013-STB-3(4-5)		1757							X	HOLD
	2013-STB-1(0-2)		1830							X	
	2013-STB-1(2-4)		1831							X	HOLD
	2013-STB-1(4-5)		1832							X	HOLD
	2012-FWFS-1(4-5)		1840						X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1360	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Plumbaritt / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44288

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO:
	ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	TPH	VOC	Sulfate	REMARKS/PRECAUTIONS.
	2013-RMSA-6(2.6-3.3)	3.7.13	1749	S	4oz	—	1				X	X		
	2012-EMS-1(5-6)	3.7.13	857						X					HOLD
	2013-STB-2(2.5-4)		915							X				
	2013-STB-2(4-5)		916				2			X	X	X		HOLD lead, Cad, Ars., Sel.
	Dup 6		917							X				
	2013-SL-4(0-0.5)		1018					X						
	2013-SL-4(0.5-2)		1019					X						HOLD
	2013-SL-4(2-3.9)		1020					X						HOLD
	2013-CUFT-7A(0-0.5)		1030						X				X	
	2013-CUFT-7A(0.5-2)		1031						XX				X	HOLD
	2013-CUFT-7A(2-4)		1032						X				X	HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1320	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1320	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Palumbari / TALH	TIME 0815

TAL-8222-560 (1209)

TestAmerica
~~1733~~ N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~ Houston

6/18/2013

No. 44287

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead + Cadmium	Sulfate	REMARKS/PRECAUTIONS.
	2013-CUFT-7A(4-5)	3.7.13	1033	S	4oz	—	1		X	X	HOLD
	2013-CUFT-10(0-0.5)	↓	1110	↓	↓	↓	↓		X	X	
	2013-CUFT-10(0.5-2)		1112						X	X	HOLD
	2013-CUFT-10(2-4)		1113						X	X	HOLD
	2013-CUFT-10(4-5)		1114	↓	↓	↓			X	X	HOLD
	EB-1	↓	1118	W		HNO_3	↓		X		

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:
REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Montgomery / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

6/18/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-1

Login Number: 69726

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69726-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
3/27/2013 12:13:26 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 22

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69726-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/27/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101214- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101214- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101214- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69726-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69726-2

Comments
No additional comments.

Receipt
The samples were received on 3/8/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.3º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69726-27	2013-SL-4 (0-0.5)	Solid	03/07/13 10:18	03/08/13 09:15

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Client Sample ID: 2013-SL-4 (0-0.5)
Date Collected: 03/07/13 10:18
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-27
Matrix: Solid
Percent Solids: 85.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	21.5		0.286	0.0293	mg/Kg	☼	03/08/13 11:21	03/11/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			03/13/13 14:53	1
Percent Solids	86		1.0	1.0	%			03/13/13 14:53	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101214/1-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101214

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/08/13 11:21	03/11/13 12:36	1

Lab Sample ID: LCSSRM 600-101214/2-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101214

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	104.0		mg/Kg		101.0	83.6 - 115.5

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Metals

Prep Batch: 101214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-101214/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101214/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	6010B	101214
LCSSRM 600-101214/2-A	Lab Control Sample	Total/NA	Solid	6010B	101214
MB 600-101214/1-A	Method Blank	Total/NA	Solid	6010B	101214

General Chemistry

Analysis Batch: 101589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-27	2013-SL-4 (0-0.5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Client Sample ID: 2013-SL-4 (0-0.5)
Date Collected: 03/07/13 10:18
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-27
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101214	03/08/13 11:21	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 13:26	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101589	03/13/13 14:53	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

 No. 44285

CHAIN OF CUSTODY RECORD

Loc: 600
1 69726

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: Lead	Lead, Cadmium	Lead, Cadmium, Arsenic, Silica	REMARKS/PRECAUTIONS.
	2013-RMSA-5(0-2)	3.6.13	1630	S	4oz	—	1		X		
	2013-RMSA-5(2-4)		1631						X		HOLD
	2013-RMSA-5(4-5)		1632						X		HOLD
	2013-RMSA-7(0-2)		1642						X		#
	2013-RMSA-7(2-4)		1643						X		HOLD
	2013-RMSA-7(4-5)		1644						X		HOLD
	~~2013-RMSA-2(0-2)~~							X			CS.
	2013-RMSA-2(2-4)		1712					X			~~HOLD~~ CS
	2013-RMSA-2(4-5)		1713					X			HOLD
	2013-RMSA-6(0-2)		1715						X		
	2013-RMSA-6(2-4)		1716				1 cont.		X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Bennings	TIME 1300	PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	0915
PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulsonbark / TAH	TIME 03/08/13

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.~~289.2471~~ Houston

Page 2 of 4

No. 44286

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512. 671. 3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-6(4-5)	3.6.13	1717	S	4oz	—	1		X		HOLD
	2013-STB-4(0-2)		1750							X	
	2013-STB-4(2-4)		1751							X	HOLD
	2013-STB-4(4-5)		1752							X	HOLD
	2013-STB-3(0-2)		1755							X	
	2013-STB-3(2-4)		1756							X	HOLD
	2013-STB-3(4-5)		1757							X	HOLD
	2013-STB-1(0-2)		1830							X	
	2013-STB-1(2-4)		1831							X	HOLD
	2013-STB-1(4-5)		1832							X	HOLD
	2012-FWFS-1(4-5)		1840						X		

SAMPLER: R. Russell

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Plumbaritt / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

3/27/2013

 No. 44288

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	TPH	VOC	Sulfate		REMARKS/PRECAUTIONS.
	2013-RMSA-6(2.6-3.3)	3.7.13	1749	S	4oz	—	1				X	X			
	2012-EMW5-1(5-6)	3.7.13	857				↓		X						HOLD
	2013-STB-2(2.5-4)		915				↓			X					
	2013-STB-2(4-5)		916				2			X	X	X			HOLD lead, Cad, Ars., Sele.
	~~Dup~~ 6		917				↓			X					
	2013-SL-4(0-0.5)		1018				↓	X							
	2013-SL-4(0.5-2)		1019				↓	X							HOLD
	2013-SL-4(2-3.9)		1020				↓	X							HOLD
	2013-CUFT-7A(0-0.5)		1030				↓		X				X		
	2013-CUFT-7A(0.5-2)		1031				↓		XX				X		HOLD
	2013-CUFT-7A(2-4)	↓	1032	↓	↓	↓	↓		X				X		HOLD

LAB JOB NO.

SEAL INTACT_____
COOLER TEMP_____
IR GUN ID_____
INITIAL/DATE_____

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1520	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1520	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Palumbari / TALH	TIME 0815

TAL-8222-560 (1209)

TestAmerica
~~1733~~ N. Padre Island Drive
Corpus ~~Christi~~, TX 78408
Phone: 361.289.2673/Fax: ~~361.289~~.2471

Houston

3/27/2013

Page 4 of 4

No. 44287

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

NUMBER OF CONTAINERS | ANALYSIS/METHOD REQUEST: Lead | Lead + Cadmium | Sulfate

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead + Cadmium	Sulfate	REMARKS/PRECAUTIONS.
	2013-CUFT-7A(4-5)	3.7.13	1033	S	4oz	—	1		X	X	HOLD
	2013-CUFT-10(0-0.5)	↓	1110	↓	↓	↓	↓		X	X	
	2013-CUFT-10(0.5-2)		1112						X	X	HOLD
	2013-CUFT-10(2-4)		1113						X	X	HOLD
	2013-CUFT-10(4-5)		1114	↓	↓	↓			X	X	HOLD
	EB-1	↓	1118	W		HNO_3	↓		X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:
REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: T. Jennings/S	TIME 1500	PRINTED NAME/COMPANY: TAH	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TAH	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Montgomery / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

3/27/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-2

Login Number: 69726

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69726-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/27/2013 10:02:57 PM
Donnie Combs
Data Review Analyst I
donnie.combs@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 16
QC Association Summary 17
Lab Chronicle 18
Certification Summary 20
Chain of Custody 21
Receipt Checklists 25

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69726

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/27/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The lead SDL was elevated in samples 69726-10 and 69726-13 due to the dilution necessary to bring this analyte to within linear dynamic range.
4	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69726-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69726-3

Comments
No additional comments.

Receipt
The samples were received on 3/8/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2013-RMSA-2 (4-5) (600-69726-8), 2013-RMSA-6 (2-4) (600-69726-10), 2013-RMSA-7 (2-4) (600-69726-5), 2013-STB-1 (2-4) (600-69726-19), 2013-STB-4 (2-4) (600-69726-13).

Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2013-STB-1 (2-4) (600-69726-19), 2013-STB-4 (2-4) (600-69726-13).

General Chemistry
Method(s) Moisture: The following samples were prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired : 2013-RMSA-2 (4-5) (600-69726-8), 2013-RMSA-6 (2-4) (600-69726-10), 2013-RMSA-7 (2-4) (600-69726-5), 2013-STB-1 (2-4) (600-69726-19), 2013-STB-4 (2-4) (600-69726-13).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69726-5	2013-RMSA-7 (2-4)	Solid	03/06/13 16:43	03/08/13 09:15
600-69726-8	2013-RMSA-2 (4-5)	Solid	03/06/13 17:13	03/08/13 09:15
600-69726-10	2013-RMSA-6 (2-4)	Solid	03/06/13 17:16	03/08/13 09:15
600-69726-13	2013-STB-4 (2-4)	Solid	03/06/13 17:51	03/08/13 09:15
600-69726-19	2013-STB-1 (2-4)	Solid	03/06/13 18:31	03/08/13 09:15

Client Sample ID: 2013-RMSA-7 (2-4)

Lab Sample ID: 600-69726-5
Date Collected: 03/06/13 16:43
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 76.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	35.5		0.598	0.125	mg/Kg	☼	04/22/13 16:51	04/23/13 13:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	77	H	1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-RMSA-2 (4-5)

Lab Sample ID: 600-69726-8
Date Collected: 03/06/13 17:13
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18.9		0.645	0.135	mg/Kg	☼	04/22/13 16:51	04/23/13 13:37	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	75	H	1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-RMSA-6 (2-4)

Lab Sample ID: 600-69726-10
Date Collected: 03/06/13 17:16
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 69.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4230		6.90	1.45	mg/Kg	☼	04/22/13 16:51	04/23/13 17:25	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	69	H	1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-STB-4 (2-4)

Lab Sample ID: 600-69726-13
Date Collected: 03/06/13 17:51
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	124		0.315	0.0323	mg/Kg	☼	04/24/13 11:30	04/24/13 14:51	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16100		6.80	1.43	mg/Kg	☼	04/22/13 16:51	04/23/13 17:30	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	73	H	1.0	1.0	%			04/22/13 15:07	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Client Sample ID: 2013-STB-1 (2-4)
Date Collected: 03/06/13 18:31
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-19
Matrix: Solid
Percent Solids: 78.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	483		0.296	0.0303	mg/Kg	☼	04/24/13 11:30	04/24/13 14:54	1
Lead	634		0.614	0.129	mg/Kg	☼	04/22/13 16:51	04/23/13 17:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	78	H	1.0	1.0	%			04/22/13 15:07	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/22/13 16:51	04/23/13 13:02	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 13:02	1

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/22/13 16:51	04/23/13 17:18	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 17:18	1

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	66.92		mg/Kg		87.0	81.3 - 118.7

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	66.31		mg/Kg		86.2	81.3 - 118.7

Lab Sample ID: MB 600-104658/1-A
Matrix: Solid
Analysis Batch: 104680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104658

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/24/13 11:30	04/24/13 14:40	1

Lab Sample ID: LCSSRM 600-104658/2-A
Matrix: Solid
Analysis Batch: 104680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104658

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	91.32		mg/Kg		88.7	83.6 - 115.5

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69726-5 DU
Matrix: Solid
Analysis Batch: 104500

Client Sample ID: 2013-RMSA-7 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	23	H	24		%		4	20

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 600-69726-5 DU
Matrix: Solid
Analysis Batch: 104500

Client Sample ID: 2013-RMSA-7 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	77	H		76		%				1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-5	2013-RMSA-7 (2-4)	Total/NA	Solid	3050B	
600-69726-8	2013-RMSA-2 (4-5)	Total/NA	Solid	3050B	
600-69726-10	2013-RMSA-6 (2-4)	Total/NA	Solid	3050B	
600-69726-13 - DL	2013-STB-4 (2-4)	Total/NA	Solid	3050B	
600-69726-19	2013-STB-1 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104520/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-5	2013-RMSA-7 (2-4)	Total/NA	Solid	6010B	104520
600-69726-8	2013-RMSA-2 (4-5)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

Analysis Batch: 104608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-10	2013-RMSA-6 (2-4)	Total/NA	Solid	6010B	104520
600-69726-13 - DL	2013-STB-4 (2-4)	Total/NA	Solid	6010B	104520
600-69726-19	2013-STB-1 (2-4)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

Prep Batch: 104658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-13	2013-STB-4 (2-4)	Total/NA	Solid	3050B	
600-69726-19	2013-STB-1 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-104658/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104658/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-13	2013-STB-4 (2-4)	Total/NA	Solid	6010B	104658
600-69726-19	2013-STB-1 (2-4)	Total/NA	Solid	6010B	104658
LCSSRM 600-104658/2-A	Lab Control Sample	Total/NA	Solid	6010B	104658
MB 600-104658/1-A	Method Blank	Total/NA	Solid	6010B	104658

General Chemistry

Analysis Batch: 104500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-5	2013-RMSA-7 (2-4)	Total/NA	Solid	Moisture	
600-69726-5 DU	2013-RMSA-7 (2-4)	Total/NA	Solid	Moisture	
600-69726-8	2013-RMSA-2 (4-5)	Total/NA	Solid	Moisture	
600-69726-10	2013-RMSA-6 (2-4)	Total/NA	Solid	Moisture	
600-69726-13	2013-STB-4 (2-4)	Total/NA	Solid	Moisture	
600-69726-19	2013-STB-1 (2-4)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-RMSA-7 (2-4)

Lab Sample ID: 600-69726-5

Date Collected: 03/06/13 16:43
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:34	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-RMSA-2 (4-5)

Lab Sample ID: 600-69726-8

Date Collected: 03/06/13 17:13
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:37	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-RMSA-6 (2-4)

Lab Sample ID: 600-69726-10

Date Collected: 03/06/13 17:16
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		10	104608	04/23/13 17:25	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-STB-4 (2-4)

Lab Sample ID: 600-69726-13

Date Collected: 03/06/13 17:51
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	104608	04/23/13 17:30	DCL	TAL HOU
Total/NA	Prep	3050B			104658	04/24/13 11:30	NER	TAL HOU
Total/NA	Analysis	6010B		1	104680	04/24/13 14:51	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-STB-1 (2-4)

Lab Sample ID: 600-69726-19

Date Collected: 03/06/13 18:31
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104608	04/23/13 17:32	DCL	TAL HOU
Total/NA	Prep	3050B			104658	04/24/13 11:30	NER	TAL HOU
Total/NA	Analysis	6010B		1	104680	04/24/13 14:54	DCL	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Client Sample ID: 2013-STB-1 (2-4)
Date Collected: 03/06/13 18:31
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

No. 44285

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Loc: 600
1 69726

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: Lead	Lead, Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-5(0-2)	3.6.13	1630	S	4oz	—	1		X		
	2013-RMSA-5(2-4)		1631						X		HOLD
	2013-RMSA-5(4-5)		1632						X		HOLD
	2013-RMSA-7(0-2)		1642						X		≠
	2013-RMSA-7(2-4)		1643						X		HOLD
	2013-RMSA-7(4-5)		1644						X		HOLD
	~~2013-RMSA-2(0-2)~~							X			CS.
	2013-RMSA-2(2-4)		1712					X			~~HOLD~~ CS
	2013-RMSA-2(4-5)		1713					X			HOLD
	2013-RMSA-6(0-2)		1715						X		
	2013-RMSA-6(2-4)		1716				1 cont.		X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: T. Bennings	TIME 1300	PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	0915
PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulsonbark / TAH	TIME 03/08/13

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.~~289.2471~~ Houston

No. 44286

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512. 671. 3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-6(4-5)	3.6.13	1717	S	4oz	—	1		X		HOLD
	2013-STB-4(0-2)		1750							X	
	2013-STB-4(2-4)		1751							X	HOLD
	2013-STB-4(4-5)		1752							X	HOLD
	2013-STB-3(0-2)		1755							X	
	2013-STB-3(2-4)		1756							X	HOLD
	2013-STB-3(4-5)		1757							X	HOLD
	2013-STB-1(0-2)		1830							X	
	2013-STB-1(2-4)		1831							X	HOLD
	2013-STB-1(4-5)		1832							X	HOLD
	2012-FWFS-1(4-5)		1840						X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Plumbaritt / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

 No. 44288

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	TPH	VOC	Sulfate	REMARKS/PRECAUTIONS.
	2013-RMSA-6(2.6-3.3)	3.7.13	1749	S	4oz	—	1				X	X		
	2012-EMW-1(5-6)	3.7.13	857				↓		X					HOLD
	2013-STB-2(2.5-4)		915				↓			X				
	2013-STB-2(4-5)		916				2			X	X	X		HOLD lead, Cad, Ars., Sele.
	~~2013~~ Dup 6		917				↓			X				
	2013-SL-4(0-0.5)		1018				↓	X						
	2013-SL-4(0.5-2)		1019				↓	X						HOLD
	2013-SL-4(2-3.9)		1020				↓	X						HOLD
	2013-CUFT-7A(0-0.5)		1030				↓		X				X	
	2013-CUFT-7A(0.5-2)		1031				↓		XX				X	HOLD
	2013-CUFT-7A(2-4)		1032				↓		X				X	HOLD

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1520	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1520	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Palumbari / TALH	TIME 0815

TAL-8222-560 (1209)

TestAmerica
~~1733~~ N. Padre Island Drive
Corpus ~~Christi~~, TX 78408
Houston
Phone: 361.289.2673/Fax: ~~361.289~~.2471

Page 4 of 4 No. 44287

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

NUMBER OF CONTAINERS | ANALYSIS/METHOD REQUEST: Lead | Lead + Cadmium | Sulfate

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead + Cadmium	Sulfate	REMARKS/PRECAUTIONS.
	2013-CUFT-7A(4-5)	3.7.13	1033	S	4oz	—	1		X	X	HOLD
	2013-CUFT-10(0-0.5)	↓	1110	↓	↓	↓	↓		X	X	
	2013-CUFT-10(0.5-2)		1112						X	X	HOLD
	2013-CUFT-10(2-4)		1113						X	X	HOLD
	2013-CUFT-10(4-5)		1114	↓	↓	↓			X	X	HOLD
	EB-1	↓	1118	W		HNO_3	↓		X		

SAMPLER: R. Russell | SHIPMENT METHOD: | AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Montgomery / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

4/27/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-3

Login Number: 69726

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69726-4
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/29/2013 4:47:20 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 22

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69726-4

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/29/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69726-4

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69726-4

Comments
No additional comments.

Receipt
The samples were received on 3/8/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-69726-11 DU), (600-69726-11 MS), (600-69726-11 MSD), 2013-RMSA-6 (4-5) (600-69726-11), 2013-STB-1 (4-5) (600-69726-20), 2013-STB-4 (4-5) (600-69726-14).

General Chemistry
Method(s) Moisture: The following sample(s) was analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: 2013-RMSA-6 (4-5) (600-69726-11), 2013-STB-1 (4-5) (600-69726-20), 2013-STB-4 (4-5) (600-69726-14).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-4

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69726-11	2013-RMSA-6 (4-5)	Solid	03/06/13 17:17	03/08/13 09:15
600-69726-14	2013-STB-4 (4-5)	Solid	03/06/13 17:52	03/08/13 09:15
600-69726-20	2013-STB-1 (4-5)	Solid	03/06/13 18:32	03/08/13 09:15

Client Sample ID: 2013-RMSA-6 (4-5)

Lab Sample ID: 600-69726-11

Date Collected: 03/06/13 17:17
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 74.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24.2		0.664	0.139	mg/Kg	☼	04/25/13 15:22	04/26/13 10:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25	H	1.0	1.0	%			04/25/13 12:51	1
Percent Solids	75	H	1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: 2013-STB-4 (4-5)

Lab Sample ID: 600-69726-14

Date Collected: 03/06/13 17:52
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	9.21		0.326	0.0335	mg/Kg	☼	04/25/13 15:22	04/26/13 11:11	1
Lead	77.9		0.652	0.137	mg/Kg	☼	04/25/13 15:22	04/26/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29	H	1.0	1.0	%			04/25/13 12:51	1
Percent Solids	71	H	1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: 2013-STB-1 (4-5)

Lab Sample ID: 600-69726-20

Date Collected: 03/06/13 18:32
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.06		0.325	0.0334	mg/Kg	☼	04/25/13 15:22	04/26/13 11:14	1
Lead	149		0.651	0.136	mg/Kg	☼	04/25/13 15:22	04/26/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29	H	1.0	1.0	%			04/25/13 12:51	1
Percent Solids	71	H	1.0	1.0	%			04/25/13 12:51	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104814/1-A
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104814

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/25/13 15:22	04/26/13 10:49	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/25/13 15:22	04/26/13 10:49	1

Lab Sample ID: LCSSRM 600-104814/2-A
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104814

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	98.25		mg/Kg		95.4	83.6 - 115.5
Lead	76.9	73.10		mg/Kg		95.1	81.3 - 118.7

Lab Sample ID: 600-69726-11 MS
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: 2013-RMSA-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.392		31.3	29.76		mg/Kg	☼	94	75 - 125
Lead	24.2		62.7	83.40		mg/Kg	☼	95	75 - 125

Lab Sample ID: 600-69726-11 MSD
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: 2013-RMSA-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.392		32.5	30.62		mg/Kg	☼	93	75 - 125	3	20
Lead	24.2		65.1	81.96		mg/Kg	☼	89	75 - 125	2	20

Lab Sample ID: 600-69726-11 DU
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: 2013-RMSA-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104814

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.392		0.4315		mg/Kg	☼	10	20
Lead	24.2		22.72		mg/Kg	☼	6	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-4

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-11	2013-RMSA-6 (4-5)	Total/NA	Solid	3050B	
600-69726-11 DU	2013-RMSA-6 (4-5)	Total/NA	Solid	3050B	
600-69726-11 MS	2013-RMSA-6 (4-5)	Total/NA	Solid	3050B	
600-69726-11 MSD	2013-RMSA-6 (4-5)	Total/NA	Solid	3050B	
600-69726-14	2013-STB-4 (4-5)	Total/NA	Solid	3050B	
600-69726-20	2013-STB-1 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-104814/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104814/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-11	2013-RMSA-6 (4-5)	Total/NA	Solid	6010B	104814
600-69726-11 DU	2013-RMSA-6 (4-5)	Total/NA	Solid	6010B	104814
600-69726-11 MS	2013-RMSA-6 (4-5)	Total/NA	Solid	6010B	104814
600-69726-11 MSD	2013-RMSA-6 (4-5)	Total/NA	Solid	6010B	104814
600-69726-14	2013-STB-4 (4-5)	Total/NA	Solid	6010B	104814
600-69726-20	2013-STB-1 (4-5)	Total/NA	Solid	6010B	104814
LCSSRM 600-104814/2-A	Lab Control Sample	Total/NA	Solid	6010B	104814
MB 600-104814/1-A	Method Blank	Total/NA	Solid	6010B	104814

General Chemistry

Analysis Batch: 104765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-11	2013-RMSA-6 (4-5)	Total/NA	Solid	Moisture	
600-69726-14	2013-STB-4 (4-5)	Total/NA	Solid	Moisture	
600-69726-20	2013-STB-1 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-4

Client Sample ID: 2013-RMSA-6 (4-5)

Lab Sample ID: 600-69726-11

Date Collected: 03/06/13 17:17
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 10:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: 2013-STB-4 (4-5)

Lab Sample ID: 600-69726-14

Date Collected: 03/06/13 17:52
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: 2013-STB-1 (4-5)

Lab Sample ID: 600-69726-20

Date Collected: 03/06/13 18:32
Matrix: Solid
Date Received: 03/08/13 09:15
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-4

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

No. 44285

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Loc: 600
1 69726

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: Lead	Lead, Cadmium	Lead, Cadmium, Arsenic, Silver	REMARKS/PRECAUTIONS.
	2013-RMSA-5(0-2)	3.6.13	1630	S	4oz	—	1		X		
	2013-RMSA-5(2-4)		1631						X		HOLD
	2013-RMSA-5(4-5)		1632						X		HOLD
	2013-RMSA-7(0-2)		1642						X		≠
	2013-RMSA-7(2-4)		1643						X		HOLD
	2013-RMSA-7(4-5)		1644						X		HOLD
	~~2013-RMSA-2(0-2)~~							X			CS.
	2013-RMSA-2(2-4)		1712					X			~~HOLD~~ CS
	2013-RMSA-2(4-5)		1713					X			HOLD
	2013-RMSA-6(0-2)		1715						X		
	2013-RMSA-6(2-4)		1716				1 cont.		X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	0915
PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulsonbark / TAH	TIME 03/08/13

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~ Houston

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44286

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512. 671. 3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-6(4-5)	3.6.13	1717	S	4oz	—	1		X		HOLD
	2013-STB-4(0-2)		1750							X	
	2013-STB-4(2-4)		1751							X	HOLD
	2013-STB-4(4-5)		1752							X	HOLD
	2013-STB-3(0-2)		1755							X	
	2013-STB-3(2-4)		1756							X	HOLD
	2013-STB-3(4-5)		1757							X	HOLD
	2013-STB-1(0-2)		1830							X	
	2013-STB-1(2-4)		1831							X	HOLD
	2013-STB-1(4-5)		1832							X	HOLD
	2012-FWFS-1(4-5)		1840						X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Plumbaritt / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

Page 3 of 4 No. 44288

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	TPH	VOC	Sulfate		REMARKS/PRECAUTIONS.
	2013-RMSA-6(2.6-3.3)	3.7.13	1749	S	4oz	—	1				X	X			
	2012-EMFS-1(5-6)	3.7.13	857						X						HOLD
	2013-STB-2(2.5-4)		915							X					
	2013-STB-2(4-5)		916				2			X	X	X			HOLD lead, Cad, Ars., Sele.
	~~Dup~~ 6		917							X					
	2013-SL-4(0-0.5)		1018					X							
	2013-SL-4(0.5-2)		1019					X							HOLD
	2013-SL-4(2-3.9)		1020					X							HOLD
	2013-CUFT-7A(0-0.5)		1030						X				X		
	2013-CUFT-7A(0.5-2)		1031						XX				X		HOLD
	2013-CUFT-7A(2-4)		1032						X				X		HOLD

LAB JOB NO.

SEAL INTACT_____
COOLER TEMP_____
IR GUN ID_____
INITIAL/DATE_____

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1520	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1520	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Palumbari / TALH	TIME 0815

TAL-8222-560 (1209)

TestAmerica
~~1733~~ N. Padre Island Drive
Corpus ~~Christi~~, TX 78408
Houston
Phone: 361.289.2673/Fax: ~~361.289~~.2471

Page 4 of 4

No. 44287

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

NUMBER OF CONTAINERS | ANALYSIS/METHOD REQUEST: Lead | Lead + Cadmium | Sulfate

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead + Cadmium	Sulfate	REMARKS/PRECAUTIONS.
	2013-CUFT-7A(4-5)	3.7.13	1033	S	4oz	—	1		X	X	HOLD
	2013-CUFT-10(0-0.5)	↓	1110	↓	↓	↓	↓		X	X	
	2013-CUFT-10(0.5-2)		1112						X	X	HOLD
	2013-CUFT-10(2-4)		1113						X	X	HOLD
	2013-CUFT-10(4-5)		1114	↓	↓	↓			X	X	HOLD
	EB-1	↓	1118	W		HNO_3	↓		X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:
REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: T. Jennings/S	TIME 1500	PRINTED NAME/COMPANY: TAH	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TAH	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Montgomery / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

4/29/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-4

Login Number: 69726

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69726-5
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/11/2013 1:27:16 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 22

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69726-5

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/11/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-5
Reviewer Name: TWR	Prep Batch Number(s): 600-107687- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-5
Reviewer Name: TWR	Prep Batch Number(s): 600-107687- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 06/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69726-5
Reviewer Name: TWR	Prep Batch Number(s): 600-107687- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69726-5

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69726-5

Comments
No additional comments.

Receipt
The samples were received on 3/8/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.3º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69726-25	2013-STB-2 (4-5)	Solid	03/07/13 09:16	03/08/13 09:15

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Client Sample ID: 2013-STB-2 (4-5)
Date Collected: 03/07/13 09:16
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-25
Matrix: Solid
Percent Solids: 73.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18.8		0.633	0.133	mg/Kg	☼	06/05/13 10:26	06/05/13 15:57	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-107687/1-A
Matrix: Solid
Analysis Batch: 107683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107687

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		06/05/13 10:26	06/05/13 15:53	1

Lab Sample ID: LCSSRM 600-107687/2-A
Matrix: Solid
Analysis Batch: 107683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107687

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	78.83		mg/Kg		102.5	81.3 - 118.7

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

Metals

Analysis Batch: 107683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	6010B	107687
LCSSRM 600-107687/2-A	Lab Control Sample	Total/NA	Solid	6010B	107687
MB 600-107687/1-A	Method Blank	Total/NA	Solid	6010B	107687

Prep Batch: 107687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69726-25	2013-STB-2 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-107687/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-107687/1-A	Method Blank	Total/NA	Solid	3050B	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Client Sample ID: 2013-STB-2 (4-5)
Date Collected: 03/07/13 09:16
Date Received: 03/08/13 09:15

Lab Sample ID: 600-69726-25
Matrix: Solid
Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			107687	06/05/13 10:26	NER	TAL HOU
Total/NA	Analysis	6010B		1	107683	06/05/13 15:57	DCL	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69726-5

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

 No. 44285

CHAIN OF CUSTODY RECORD

Loc: 600
1 69726

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: Lead	Lead, Cadmium	Lead, Cadmium, Arsenic, Silver	REMARKS/PRECAUTIONS.
	2013-RMSA-5(0-2)	3.6.13	1630	S	4oz	—	1		X		
	2013-RMSA-5(2-4)		1631						X		HOLD
	2013-RMSA-5(4-5)		1632						X		HOLD
	2013-RMSA-7(0-2)		1642						X		#
	2013-RMSA-7(2-4)		1643						X		HOLD
	2013-RMSA-7(4-5)		1644						X		HOLD
	~~2013-RMSA-2(0-2)~~							X			CS.
	2013-RMSA-2(2-4)		1712					X			~~HOLD~~ CS
	2013-RMSA-2(4-5)		1713					X			HOLD
	2013-RMSA-6(0-2)		1715						X		
	2013-RMSA-6(2-4)		1716						X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD: 1 cont.
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: T. Bennings	TIME 1300	PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	0915
PRINTED NAME/COMPANY: TR	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulsombard / TAH	TIME 03/08/13

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~ Houston

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44286

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512. 671. 3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	REMARKS/PRECAUTIONS.
	2013-RMSA-6(4-5)	3.6.13	1717	S	4oz	—	1		X		HOLD
	2013-STB-4(0-2)		1750							X	
	2013-STB-4(2-4)		1751							X	HOLD
	2013-STB-4(4-5)		1752							X	HOLD
	2013-STB-3(0-2)		1755							X	
	2013-STB-3(2-4)		1756							X	HOLD
	2013-STB-3(4-5)		1757							X	HOLD
	2013-STB-1(0-2)		1830							X	
	2013-STB-1(2-4)		1831							X	HOLD
	2013-STB-1(4-5)		1832							X	HOLD
	2012-FWFS-1(4-5)		1840						X		

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1300	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Plumbaritt / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

Page 3 of 4 No. 44288

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	Lead, Cadmium, Arsenic, Selenium	TPH	VOC	Sulfate	REMARKS/PRECAUTIONS.
	2013-RMSA-6(2.6-3.3)	3.6.13	1749	S	4oz	—	1				X	X		
	2012-~~FMF~~5-1(5-6)	3.7.13	857				↓		X					HOLD
	2013-STB-2(2.5-4)		915							X				
	2013-STB-2(4-5)		916				2			X	X	X		HOLD lead, Cad, Ars., Sele.
	~~Dup~~ 6		917							X				
	2013-SL-4(0-0.5)		1018					X						
	2013-SL-4(0.5-2)		1019					X						HOLD
	2013-SL-4(2-3.9)		1020					X						HOLD
	2013-CUFT-7A(0-0.5)		1030						X				X	
	2013-CUFT-7A(0.5-2)		1031						XX				X	HOLD
	2013-CUFT-7A(2-4)		1032				↓		X				X	HOLD

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1300	PRINTED NAME/COMPANY:	TIME 1520	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY: TA	TIME 1520	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Palumbari / TALH	TIME 0815

TAL-8222-560 (1209)

TestAmerica
~~1733~~ N. Padre Island Drive
Corpus ~~Christi~~, TX 78408
Phone: 361.289.2673/Fax: ~~361.289~~.2471

Houston

No. 44287

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead + Cadmium	Sulfate						REMARKS/PRECAUTIONS.
	2013-CUFT-7A(4-5)	3.7.13	1033	S	4oz	—	1		X	X						HOLD
	2013-CUFT-10(0-0.5)	↓	1110	↓	↓	↓	↓		X	X						
	2013-CUFT-10(0.5-2)		1112						X	X						HOLD
	2013-CUFT-10(2-4)		1113						X	X						HOLD
	2013-CUFT-10(4-5)		1114	↓	↓	↓			X	X						HOLD
	EB-1	↓	1118	W		HNO_3	↓		X							

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:	3/7/13	SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/7/13	SIGNATURE:		SIGNATURE:	03/08/13
PRINTED NAME/COMPANY:	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Montgomery / TAH	TIME 0915

TAL-8222-560 (1209)

TestAmerica
1733 N Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

6/11/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69726-5

Login Number: 69726

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70064-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 4:42:58 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 25
Method Summary 26
Sample Summary 27
Client Sample Results 28
Definitions/Glossary 39
Surrogate Summary 40
QC Sample Results 41
Default Detection Limits 48
QC Association Summary 50
Lab Chronicle 53
Certification Summary 57
Chain of Custody 58
Receipt Checklists 61

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70064-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/27/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064
Reviewer Name: TWR	Prep Batch Number(s): 600-101811- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064
Reviewer Name: TWR	Prep Batch Number(s): 600-101811- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064
Reviewer Name: TWR	Prep Batch Number(s): 600-101811- ICP

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The lead recoveries in samples 70064-4 MS and MSD were outside acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
3	The lead SDL was elevated in sample 70064-7 due to the dilution necessary to bring this analyte to within linear dynamic range.
4	The lead percent difference between samples 70064-4 and 70064-4 SD was above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064
Reviewer Name: YX	Prep Batch Number: 600-101822-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		2
		Were MS/MSD RPDs within laboratory QC limits?			X		2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?		X			3

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064
Reviewer Name: YX	Prep Batch Number: 600-101822-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064
Reviewer Name: YX	Prep Batch Number: 600-101822-VOA

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	The laboratory is not NELAC certified for Bromomethane.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-70064
Reviewer Name: JOH	Prep Batch Number(s): 600-102162 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			2
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-70064
Reviewer Name: JOH	Prep Batch Number(s): 600-102162 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-70064
Reviewer Name: JOH	Prep Batch Number(s): 600-102162 - SV

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	Due to the level of dilution required for samples 600-70064-27 and 28, surrogate recoveries are not reported.
3	All of the SDLs in samples 600-70064-27and 28 were elevated due to the nature of the sample matrix.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/22/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101862- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/22/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101862- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/22/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Prep Batch Number(s): 600-101862- TX1005

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	All of the SDLs were elevated in samples 600-70064-28 and 29 due to the high concentrations of target ranges.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Reporting Batch Number: 600-102324-TX1006

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?			X		

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Reporting Batch Number: 600-102324-TX1006

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/25/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-70064-1
Reviewer Name: RJV	Reporting Batch Number: 600-102324-TX1006

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	All of the SDLs were elevated in sample 600-70064-27 due to the high concentrations of target ranges.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 10/9/2012
Date Prepared: 10/9/2012
TALs Batches: K28205.D
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Dichlorodifluoromethane	1.54	2.5	1.57	5
Chloromethane	1.66	2.5	2.85	10
Vinyl Chloride	0.9	2.5	2.86	10
Bromomethane	0.83	2.5	2.54	10
Chloroethane	1.4	2.5	3.11	10
Trichlorofluoromethane	0.66	2.5	2.92	10
Acrolein	1.39	2.5	17.79	5
1,1-Dichloroethene	1.22	2.5	3.06	5
Trichlorotrifluoromethane	0.66	2.5	3.02	10
Acetone	1.66	2.5	0.026	5
Methyl Iodide	2.5	5	8.55	5
2-Propanol	27.47	2.5	85.83	5
Carbon Disulfide	0.55	2.5	6.35	10
Acetonitrile	1.39	2.5	6.05	10
Allyl chloride	1.39	2.5	5.73	5
Methylene Chloride	2.19	5	2.38	10
Acrylonitrile	5.82	5	21.17	25
trans-1,2-Dichloroethene	1.14	2.5	3.05	5
Methyl tert-butyl ether	1.83	2.5	2.92	5
1,1-Dichloroethane	0.87	2.5	3.11	5
Vinyl Acetate	0.93	2.5	5.79	5
Chloroprene	2.71	5	7.68	5
cis-1,2-Dichloroethene	0.83	2.5	3.22	5
1,2-Dichloroethene (total)	1.9	2.5	6.27	10
2,2-Dichloropropane	1.82	2.5	2.95	5
2-Butanone	1.9	2.5	6.25	5
Propionitrile	2.36	5	9.5	5
Methacrylonitrile	5	5	8.06	5
Bromochloromethane	1.78	2.5	3.03	5
Chloroform	0.66	2.5	3.48	5
1,1,1-Trichloroethane	0.74	2.5	3.13	5
1,1-Dichloropropene	0.65	2.5	3.25	5
Carbon Tetrachloride	1.13	2.5	3.19	5
Isobutyl alcohol	17.16	5	21.72	5
Benzene	0.63	2.5	3.18	5
1,2-Dichloroethane	0.9	2.5	3.35	5
Trichloroethene	1.4	2.5	3.24	5
1,2-Dichloropropane	0.71	2.5	3.01	5
Methyl methacrylate	2.86	5	4.06	10

Methylene Bromide	0.75	2.5	3.02	5
1,4-Dioxane	62.07	250	133.4	500
Bromodichloromethane	0.66	2.5	2.98	5
2-Chloroethyl vinyl ether	0.98	2.5	5.97	10
cis-1,3-Dichloropropene	0.54	2.5	3.02	5
Toluene	1.38	2.5	3.32	5
trans-1,3-Dichloropropene	0.58	2.5	2.96	5
Ethyl methacrylate	1.66	2.5	5.65	5
1,1,2-Trichloroethane	0.73	2.5	2.97	5
1,3-Dichloropropane	0.63	2.5	3.23	5
Tetrachloroethene	1.4	2.5	3.03	5
2-Hexanone	1.01	2.5	5.68	10
Dibromochloromethane	0.94	2.5	2.86	5
1,2-Dibromoethane	6.54	5	4.2	10
Chlorobenzene	0.96	2.5	3.1	5
1,1,1,2-Tetrachloroethane	1.4	2.5	2.99	5
Ethylbenzene	1.02	2.5	3	5
m,p-Xylene	1.52	2.5	6.04	10
o-Xylene	1.13	2.5	3	5
Xylenes (total)	1.13	2.5	9.05	5
Styrene	0.71	2.5	2.97	5
Bromoform	1.37	2.5	2.56	5
Isopropylbenzene	0.92	2.5	2.9	5
trans-1,4-Dichloro-2-butene	1.9	2.5	5.17	5
Bromobenzene	0.99	2.5	3.05	5
n-Propylbenzene	0.95	2.5	2.96	5
2-Chlorotoluene	0.68	2.5	3.07	5
4-Chlorotoluene	0.83	2.5	2.99	5
1,3,5-Trimethylbenzene	1.6	2.5	2.85	5
tert-Butylbenzene	0.95	2.5	2.88	5
1,2,4-Trimethylbenzene	0.92	2.5	2.93	5
sec-Butylbenzene	0.7	2.5	2.94	5
1,3-Dichlorobenzene	0.71	2.5	3.04	5
1,4-Dichlorobenzene	0.66	2.5	3.03	5
1,2-Dichlorobenzene	0.8	2.5	2.97	5
p-Isopropyltoluene	0.63	2.5	2.77	5
n-Butylbenzene	0.58	2.5	2.84	5
1,2,3-Trichloropropane	1.31	2.5	2.82	5
1,2,4-Trichlorobenzene	1.97	2.5	4.09	5
Hexachlorobutadiene	1.13	2.5	5.72	5
1,2,3-Trichlorobenzene	0.62	2.5	3.3	5
Naphthalene	2.37	5	4.44	10

Quality Control Report
Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	10/18/2012
Date Prepared:	10/11/2012
Lab Sample ID:	600-90857_18-a
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	8.35	1.08	16.67
N-Nitrosodimethyalamine	30.71	16.7	11.97	16.67
Aniline	2.98	8.35	2.33	16.67
Phenol	4.24	8.35	7.91	16.67
bis(2-Chloroethyl)ether	1.65	8.35	7.29	16.67
2-Chlorophenol	1.97	8.35	7.54	16.67
1,3-Dichlorobenzene	1.54	8.35	7.19	16.67
1,4-Dichlorobenzene	2.25	8.35	6.84	16.67
1,2-Dichlorobenzene	3.02	8.35	7.29	16.67
Benzyl alcohol	5.83	16.7	9.50	16.67
2-Methylphenol	3.23	8.35	6.07	16.67
m&p-Cresols	2.79	8.35	4.59	33.33
bis (2-Chloroisopropyl) ether	8.84	16.7	13.41	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	6.29	16.67
Hexachloroethane	2.31	8.35	8.47	16.67
Nitrobenzene	2.96	8.35	7.35	16.67
Isophorone	5	8.35	6.03	16.67
2-Nitrophenol	3.89	8.35	3.94	16.67
Benzoic acid	32.76	33.4	220.80	83.33
2,4-Dimethylphenol	8.58	16.7	9.79	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	5.19	16.67
2,4-Dichlorophenol	8.58	16.7	9.48	16.67
1,2,4-Trichlorobenzene	2.1	8.35	7.92	16.67
Naphthalene	1.35	8.35	6.35	16.67
4-Chloroaniline	5.82	8.35	3.69	16.67
Hexachlorobutadiene	1.92	8.35	5.91	16.67
4-Chloro-3-methylphenol	15.58	16.7	8.00	16.67
2-Methylnaphthalene	2.74	8.35	5.53	16.67
1-Methylnaphthalene	1.57	8.35	6.53	16.67
Hexachlorocyclopentadiene	4.61	8.35	14.08	16.67
2,4,6-Trichlorophenol	2.68	8.35	5.54	16.67
2,4,5-Trichlorophenol	10.01	16.7	8.68	16.67
2-Chloronaphthalene	1.21	8.35	6.26	16.67
2-Nitroaniline	4.89	8.35	4.10	16.67
Dimethylphthalate	4.89	8.35	5.80	16.67
1,4 Dinitrobenzene	16.67	8.35	14.23	16.67
1,3- Dinitorbenzene	2.96	8.35	13.00	16.67
1,2-Dinitrobenzene	16.67	8.35	4.73	16.67
Acenaphthylene	5	8.35	6.86	16.67

2,6-Dinitrotoluene	2.95	8.35	8.78	16.67
3-Nitroaniline	7.15	8.35	3.09	16.67
Acenapthene	1.44	8.35	6.03	16.67
Dibenzofuran	1.78	8.35	6.15	16.67
2,4-Dinitrotoluene	3.61	8.35	6.10	16.67
2,3,4,6-Tetrachlorophenol	16.67	16.7	15.95	16.67
Diethylphthalate	8.43	16.7	11.50	16.67
4-Chlorophenyl-phenylether	1.8	8.35	6.79	16.67
Fluorene	2.36	8.35	5.57	16.67
4-Nitroaniline	11.15	16.7	5.63	16.67
4,6-Dinitro-2-Methylphenol	4.98	16.7	15.38	16.67
N-Nitrosodiphenylamine	1.89	8.35	5.94	16.67
Diphenylamine	1.94	8.35	4.69	16.67
1,2-Diphenylhydrazine	1.62	8.35	5.61	16.67
Azobenzene	1.85	8.35	5.14	16.67
4-Bromophenyl-phenylether	2.84	8.35	6.26	16.67
Hexachlorobenzene	1.52	8.35	6.89	16.67
Phenanthrene	4.95	8.35	6.76	16.67
Anthracene	1.28	8.35	6.66	16.67
Carbazole	3.12	8.35	6.16	16.67
Di-n-butylphthalate	2.59	8.35	6.08	16.67
Fluoranthene	3.11	8.35	6.58	16.67
Pyrene	1.83	8.35	7.09	16.67
Butylbenzylphthalate	6.19	16.7	9.35	66.68
3,3'-Dichlorobenzidene	10.16	16.7	6.12	16.67
Benzo(a)anthracene	1.38	8.35	6.93	16.67
bis(2-Ethylhexl)phthalate	5.37	16.7	10.49	66.68
Chrysene	1.02	8.35	10.06	16.67
Di-n-octylphthalate	1.9	8.35	3.61	66.68
Benzo(b)fluoranthene	1.72	8.35	3.95	16.67
Benzo(k)fluoranthene	1.49	8.35	8.45	16.67
Benzo(a)pyrene	1.61	8.35	5.20	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	14.82	16.67
Dibenz(a,h)anthracene	3.63	8.35	2.38	16.67
Benzo(g,h,i)perylene	5.07	16.7	12.37	16.67

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	10/22/2012
Date Prepared:	10/15/2012
Data File:	600-91191/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	20	27.03	25
>C12-C28	4.06	20	27.46	25
Total C6-C35	7.48	40	54.49	25

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-70064-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70064-1

Comments
The report was revised on 06/18/13 to include MTBE in the VOA analysis.

Receipt
The samples were received on 3/15/2013 8:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Except:

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: 2013-TS-1(0.5-2)

Organic Prep
Method(s) 3550B: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: (600-70064-27 MS), (600-70064-27 MSD), 2013-STB-11(0.5-1.3) (600-70064-27), 2013-STB-6(0.5-1.1) (600-70064-28). The SDLs are elevated proportionately.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70064-1	2013-TS-2 (0-0.5)	Solid	03/14/13 09:15	03/15/13 08:38
600-70064-4	2013-TS-1(0-0.5)	Solid	03/14/13 09:35	03/15/13 08:38
600-70064-7	2013-FOP-1 (0-0.5)	Solid	03/14/13 10:20	03/15/13 08:38
600-70064-11	2013-AD-1(0-0.5)	Solid	03/14/13 10:35	03/15/13 08:38
600-70064-14	2013-MB-1(0-2)	Solid	03/14/13 11:20	03/15/13 08:38
600-70064-17	2013-MB-2(0-2)	Solid	03/14/13 11:00	03/15/13 08:38
600-70064-19	2013-MB-1(4-5)	Solid	03/14/13 11:20	03/15/13 08:38
600-70064-20	2013-MB-1(0-2)	Solid	03/14/13 11:20	03/15/13 08:38
600-70064-21	2013-MB-2(0-2)	Solid	03/14/13 11:00	03/15/13 08:38
600-70064-22	2013-STB-5(0.5-1.5)	Solid	03/14/13 13:15	03/15/13 08:38
600-70064-23	2013-STB-6(0.5-1.1)	Solid	03/14/13 13:30	03/15/13 08:38
600-70064-24	DUP-7	Solid	03/14/13 00:00	03/15/13 08:38
600-70064-25	2013-STB-7(0.5-1.2)	Solid	03/14/13 14:00	03/15/13 08:38
600-70064-26	2013-STB-8(0.8-1.3)	Solid	03/14/13 14:10	03/15/13 08:38
600-70064-27	2013-STB-11(0.5-1.3)	Solid	03/14/13 14:20	03/15/13 08:38
600-70064-28	2013-STB-6(0.5-1.1)	Solid	03/14/13 13:30	03/15/13 08:38
600-70064-29	2013-STB-11(0.5-1.3)	Solid	03/14/13 14:20	03/15/13 08:38

Client Sample ID: 2013-TS-2 (0-0.5)

Lab Sample ID: 600-70064-1

Date Collected: 03/14/13 09:15
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 74.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.591		0.327	0.0336	mg/Kg	☼	03/15/13 15:45	03/18/13 16:38	1
Lead	98.6		0.654	0.137	mg/Kg	☼	03/15/13 15:45	03/18/13 16:38	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	75		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-TS-1(0-0.5)

Lab Sample ID: 600-70064-4

Date Collected: 03/14/13 09:35
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 81.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.183	J	0.288	0.0295	mg/Kg	☼	03/15/13 15:45	03/18/13 16:42	1
Lead	10.2		0.575	0.121	mg/Kg	☼	03/15/13 15:45	03/18/13 16:42	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	81		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-FOP-1 (0-0.5)

Lab Sample ID: 600-70064-7

Date Collected: 03/14/13 10:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	20.1		0.288	0.0295	mg/Kg	☼	03/15/13 15:45	03/18/13 16:57	1
Lead	6460		5.75	1.21	mg/Kg	☼	03/15/13 15:45	03/19/13 08:41	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	84		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-AD-1(0-0.5)

Lab Sample ID: 600-70064-11

Date Collected: 03/14/13 10:35
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 77.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.52		0.315	0.0324	mg/Kg	☼	03/15/13 15:45	03/18/13 17:01	1
Lead	2570		0.631	0.132	mg/Kg	☼	03/15/13 15:45	03/18/13 17:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	77		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-MB-1(0-2)

Lab Sample ID: 600-70064-14

Date Collected: 03/14/13 11:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.0400**	**J**	0.277	0.0285	mg/Kg	☼	03/15/13 15:45	03/18/13 17:05	1
Lead	**46.7**		0.555	0.116	mg/Kg	☼	03/15/13 15:45	03/18/13 17:05	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**88**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-MB-2(0-2)

Lab Sample ID: 600-70064-17

Date Collected: 03/14/13 11:00
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 75.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**2.32**		0.302	0.0310	mg/Kg	☼	03/15/13 15:45	03/18/13 17:17	1
Lead	**245**		0.604	0.127	mg/Kg	☼	03/15/13 15:45	03/18/13 17:17	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**76**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-MB-1(4-5)

Lab Sample ID: 600-70064-19

Date Collected: 03/14/13 11:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 76.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.347**		0.0131	0.00217	mg/Kg	☼		03/16/13 11:46	1
Benzene	0.000823	U	0.00653	0.000823	mg/Kg	☼		03/16/13 11:46	1
Chlorobromomethane	0.00233	U	0.00653	0.00233	mg/Kg	☼		03/16/13 11:46	1
Bromoform	0.00179	U	0.00653	0.00179	mg/Kg	☼		03/16/13 11:46	1
Bromomethane	0.00108	U	0.0131	0.00108	mg/Kg	☼		03/16/13 11:46	1
2-Butanone (MEK)	**0.0367**		0.0131	0.00248	mg/Kg	☼		03/16/13 11:46	1
Carbon disulfide	0.000718	U	0.0131	0.000718	mg/Kg	☼		03/16/13 11:46	1
Carbon tetrachloride	0.00148	U	0.00653	0.00148	mg/Kg	☼		03/16/13 11:46	1
Dibromochloromethane	0.00123	U	0.00653	0.00123	mg/Kg	☼		03/16/13 11:46	1
Chlorobenzene	0.00125	U	0.00653	0.00125	mg/Kg	☼		03/16/13 11:46	1
Chloroethane	0.00183	U	0.0131	0.00183	mg/Kg	☼		03/16/13 11:46	1
Chloroform	**0.00130**	**J**	0.00653	0.000862	mg/Kg	☼		03/16/13 11:46	1
Chloromethane	0.00217	U	0.0131	0.00217	mg/Kg	☼		03/16/13 11:46	1
1,1-Dichloroethane	0.00114	U	0.00653	0.00114	mg/Kg	☼		03/16/13 11:46	1
1,2-Dichloroethane	0.00118	U	0.00653	0.00118	mg/Kg	☼		03/16/13 11:46	1
1,1-Dichloroethene	0.00159	U	0.00653	0.00159	mg/Kg	☼		03/16/13 11:46	1
cis-1,2-Dichloroethene	0.00108	U	0.00653	0.00108	mg/Kg	☼		03/16/13 11:46	1
trans-1,2-Dichloroethene	0.00149	U	0.00653	0.00149	mg/Kg	☼		03/16/13 11:46	1
1,2-Dichloropropane	0.000927	U	0.00653	0.000927	mg/Kg	☼		03/16/13 11:46	1
cis-1,3-Dichloropropene	0.000705	U	0.00653	0.000705	mg/Kg	☼		03/16/13 11:46	1
trans-1,3-Dichloropropene	0.000758	U	0.00653	0.000758	mg/Kg	☼		03/16/13 11:46	1
Ethylbenzene	**0.00145**	**J**	0.00653	0.00133	mg/Kg	☼		03/16/13 11:46	1

Client Sample ID: 2013-MB-1(4-5)

Lab Sample ID: 600-70064-19

Date Collected: 03/14/13 11:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 76.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.00132	U	0.0131	0.00132	mg/Kg	☼		03/16/13 11:46	1
Methylene Chloride	0.00286	U	0.0131	0.00286	mg/Kg	☼		03/16/13 11:46	1
4-Methyl-2-pentanone (MIBK)	0.00192	U	0.0131	0.00192	mg/Kg	☼		03/16/13 11:46	1
Styrene	0.000927	U	0.00653	0.000927	mg/Kg	☼		03/16/13 11:46	1
1,1,2,2-Tetrachloroethane	0.00114	U	0.00653	0.00114	mg/Kg	☼		03/16/13 11:46	1
Tetrachloroethene	0.000927	U	0.00653	0.000927	mg/Kg	☼		03/16/13 11:46	1
Toluene	**0.00752**		0.00653	0.00180	mg/Kg	☼		03/16/13 11:46	1
1,1,1-Trichloroethane	0.000967	U	0.00653	0.000967	mg/Kg	☼		03/16/13 11:46	1
1,1,2-Trichloroethane	0.000954	U	0.00653	0.000954	mg/Kg	☼		03/16/13 11:46	1
Trichloroethene	0.00183	U	0.00653	0.00183	mg/Kg	☼		03/16/13 11:46	1
Vinyl acetate	0.00121	U	0.00653	0.00121	mg/Kg	☼		03/16/13 11:46	1
Vinyl chloride	0.00118	U	0.0131	0.00118	mg/Kg	☼		03/16/13 11:46	1
o-Xylene	**0.00422**	**J**	0.00653	0.00148	mg/Kg	☼		03/16/13 11:46	1
m-Xylene & p-Xylene	**0.00680**	**J**	0.0131	0.00199	mg/Kg	☼		03/16/13 11:46	1
Xylenes, Total	**0.0110**		0.00653	0.00148	mg/Kg	☼		03/16/13 11:46	1
Bromodichloromethane	0.000862	U	0.00653	0.000862	mg/Kg	☼		03/16/13 11:46	1
1,2-Dichloroethene, Total	0.00248	U	0.0131	0.00248	mg/Kg	☼		03/16/13 11:46	1
Methyl tert-butyl ether	**0.00794**		0.00653	0.00239	mg/Kg	☼		03/16/13 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*78*		*50 - 130*		*03/16/13 11:46*	*1*
Dibromofluoromethane	*80*		*68 - 140*		*03/16/13 11:46*	*1*
4-Bromofluorobenzene	*124*		*57 - 140*		*03/16/13 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*		*03/16/13 11:46*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**77**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-MB-1(0-2)

Lab Sample ID: 600-70064-20

Date Collected: 03/14/13 11:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.172**		0.0114	0.00189	mg/Kg	☼		03/16/13 12:09	1
Benzene	0.000719	U	0.00570	0.000719	mg/Kg	☼		03/16/13 12:09	1
Chlorobromomethane	0.00203	U	0.00570	0.00203	mg/Kg	☼		03/16/13 12:09	1
Bromoform	0.00156	U	0.00570	0.00156	mg/Kg	☼		03/16/13 12:09	1
Bromomethane	0.000947	U	0.0114	0.000947	mg/Kg	☼		03/16/13 12:09	1
2-Butanone (MEK)	0.00217	U	0.0114	0.00217	mg/Kg	☼		03/16/13 12:09	1
Carbon disulfide	0.000627	U	0.0114	0.000627	mg/Kg	☼		03/16/13 12:09	1
Carbon tetrachloride	0.00129	U	0.00570	0.00129	mg/Kg	☼		03/16/13 12:09	1
Dibromochloromethane	0.00107	U	0.00570	0.00107	mg/Kg	☼		03/16/13 12:09	1
Chlorobenzene	0.00110	U	0.00570	0.00110	mg/Kg	☼		03/16/13 12:09	1
Chloroethane	0.00160	U	0.0114	0.00160	mg/Kg	☼		03/16/13 12:09	1
Chloroform	**0.00134**	**J**	0.00570	0.000753	mg/Kg	☼		03/16/13 12:09	1
Chloromethane	0.00189	U	0.0114	0.00189	mg/Kg	☼		03/16/13 12:09	1
1,1-Dichloroethane	0.000992	U	0.00570	0.000992	mg/Kg	☼		03/16/13 12:09	1

Client Sample ID: 2013-MB-1(0-2)

Lab Sample ID: 600-70064-20

Date Collected: 03/14/13 11:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.00103	U	0.00570	0.00103	mg/Kg	☼		03/16/13 12:09	1
1,1-Dichloroethene	0.00139	U	0.00570	0.00139	mg/Kg	☼		03/16/13 12:09	1
cis-1,2-Dichloroethene	0.000947	U	0.00570	0.000947	mg/Kg	☼		03/16/13 12:09	1
trans-1,2-Dichloroethene	0.00130	U	0.00570	0.00130	mg/Kg	☼		03/16/13 12:09	1
1,2-Dichloropropane	0.000810	U	0.00570	0.000810	mg/Kg	☼		03/16/13 12:09	1
cis-1,3-Dichloropropene	0.000616	U	0.00570	0.000616	mg/Kg	☼		03/16/13 12:09	1
trans-1,3-Dichloropropene	0.000662	U	0.00570	0.000662	mg/Kg	☼		03/16/13 12:09	1
Ethylbenzene	0.00116	U	0.00570	0.00116	mg/Kg	☼		03/16/13 12:09	1
2-Hexanone	0.00115	U	0.0114	0.00115	mg/Kg	☼		03/16/13 12:09	1
Methylene Chloride	0.00250	U	0.0114	0.00250	mg/Kg	☼		03/16/13 12:09	1
4-Methyl-2-pentanone (MIBK)	0.00168	U	0.0114	0.00168	mg/Kg	☼		03/16/13 12:09	1
Styrene	0.000810	U	0.00570	0.000810	mg/Kg	☼		03/16/13 12:09	1
1,1,2,2-Tetrachloroethane	0.000992	U	0.00570	0.000992	mg/Kg	☼		03/16/13 12:09	1
Tetrachloroethene	0.000810	U	0.00570	0.000810	mg/Kg	☼		03/16/13 12:09	1
Toluene	**0.00436**	**J**	0.00570	0.00157	mg/Kg	☼		03/16/13 12:09	1
1,1,1-Trichloroethane	0.000844	U	0.00570	0.000844	mg/Kg	☼		03/16/13 12:09	1
1,1,2-Trichloroethane	0.000833	U	0.00570	0.000833	mg/Kg	☼		03/16/13 12:09	1
Trichloroethene	0.00160	U	0.00570	0.00160	mg/Kg	☼		03/16/13 12:09	1
Vinyl acetate	0.00106	U	0.00570	0.00106	mg/Kg	☼		03/16/13 12:09	1
Vinyl chloride	0.00103	U	0.0114	0.00103	mg/Kg	☼		03/16/13 12:09	1
o-Xylene	0.00129	U	0.00570	0.00129	mg/Kg	☼		03/16/13 12:09	1
m-Xylene & p-Xylene	0.00173	U	0.0114	0.00173	mg/Kg	☼		03/16/13 12:09	1
Xylenes, Total	0.00129	U	0.00570	0.00129	mg/Kg	☼		03/16/13 12:09	1
Bromodichloromethane	0.000753	U	0.00570	0.000753	mg/Kg	☼		03/16/13 12:09	1
1,2-Dichloroethene, Total	0.00217	U	0.0114	0.00217	mg/Kg	☼		03/16/13 12:09	1
Methyl tert-butyl ether	0.00209	U	0.00570	0.00209	mg/Kg	☼		03/16/13 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*79*		*50 - 130*		*03/16/13 12:09*	*1*
Dibromofluoromethane	*83*		*68 - 140*		*03/16/13 12:09*	*1*
4-Bromofluorobenzene	*123*		*57 - 140*		*03/16/13 12:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*		*03/16/13 12:09*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**88**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-MB-2(0-2)

Lab Sample ID: 600-70064-21

Date Collected: 03/14/13 11:00
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 78.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.241**		0.0128	0.00212	mg/Kg	☼		03/16/13 12:33	1
Benzene	**0.00711**		0.00638	0.000803	mg/Kg	☼		03/16/13 12:33	1
Chlorobromomethane	0.00227	U	0.00638	0.00227	mg/Kg	☼		03/16/13 12:33	1
Bromoform	0.00175	U	0.00638	0.00175	mg/Kg	☼		03/16/13 12:33	1
Bromomethane	0.00106	U	0.0128	0.00106	mg/Kg	☼		03/16/13 12:33	1
2-Butanone (MEK)	0.00242	U	0.0128	0.00242	mg/Kg	☼		03/16/13 12:33	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Client Sample ID: 2013-MB-2(0-2)
Date Collected: 03/14/13 11:00
Date Received: 03/15/13 08:38

Lab Sample ID: 600-70064-21
Matrix: Solid
Percent Solids: 78.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.000701	U	0.0128	0.000701	mg/Kg	☼		03/16/13 12:33	1
Carbon tetrachloride	0.00144	U	0.00638	0.00144	mg/Kg	☼		03/16/13 12:33	1
Dibromochloromethane	0.00120	U	0.00638	0.00120	mg/Kg	☼		03/16/13 12:33	1
Chlorobenzene	0.00122	U	0.00638	0.00122	mg/Kg	☼		03/16/13 12:33	1
Chloroethane	0.00179	U	0.0128	0.00179	mg/Kg	☼		03/16/13 12:33	1
Chloroform	**0.00139**	**J**	0.00638	0.000842	mg/Kg	☼		03/16/13 12:33	1
Chloromethane	0.00212	U	0.0128	0.00212	mg/Kg	☼		03/16/13 12:33	1
1,1-Dichloroethane	0.00111	U	0.00638	0.00111	mg/Kg	☼		03/16/13 12:33	1
1,2-Dichloroethane	0.00115	U	0.00638	0.00115	mg/Kg	☼		03/16/13 12:33	1
1,1-Dichloroethene	0.00156	U	0.00638	0.00156	mg/Kg	☼		03/16/13 12:33	1
cis-1,2-Dichloroethene	0.00106	U	0.00638	0.00106	mg/Kg	☼		03/16/13 12:33	1
trans-1,2-Dichloroethene	0.00145	U	0.00638	0.00145	mg/Kg	☼		03/16/13 12:33	1
1,2-Dichloropropane	0.000905	U	0.00638	0.000905	mg/Kg	☼		03/16/13 12:33	1
cis-1,3-Dichloropropene	0.000689	U	0.00638	0.000689	mg/Kg	☼		03/16/13 12:33	1
trans-1,3-Dichloropropene	0.000740	U	0.00638	0.000740	mg/Kg	☼		03/16/13 12:33	1
Ethylbenzene	0.00130	U	0.00638	0.00130	mg/Kg	☼		03/16/13 12:33	1
2-Hexanone	0.00129	U	0.0128	0.00129	mg/Kg	☼		03/16/13 12:33	1
Methylene Chloride	0.00279	U	0.0128	0.00279	mg/Kg	☼		03/16/13 12:33	1
4-Methyl-2-pentanone (MIBK)	0.00187	U	0.0128	0.00187	mg/Kg	☼		03/16/13 12:33	1
Styrene	0.000905	U	0.00638	0.000905	mg/Kg	☼		03/16/13 12:33	1
1,1,2,2-Tetrachloroethane	0.00111	U	0.00638	0.00111	mg/Kg	☼		03/16/13 12:33	1
Tetrachloroethene	0.000905	U	0.00638	0.000905	mg/Kg	☼		03/16/13 12:33	1
Toluene	**0.00857**		0.00638	0.00176	mg/Kg	☼		03/16/13 12:33	1
1,1,1-Trichloroethane	0.000944	U	0.00638	0.000944	mg/Kg	☼		03/16/13 12:33	1
1,1,2-Trichloroethane	0.000931	U	0.00638	0.000931	mg/Kg	☼		03/16/13 12:33	1
Trichloroethene	0.00179	U	0.00638	0.00179	mg/Kg	☼		03/16/13 12:33	1
Vinyl acetate	0.00119	U	0.00638	0.00119	mg/Kg	☼		03/16/13 12:33	1
Vinyl chloride	0.00115	U	0.0128	0.00115	mg/Kg	☼		03/16/13 12:33	1
o-Xylene	0.00144	U	0.00638	0.00144	mg/Kg	☼		03/16/13 12:33	1
m-Xylene & p-Xylene	0.00194	U	0.0128	0.00194	mg/Kg	☼		03/16/13 12:33	1
Xylenes, Total	0.00144	U	0.00638	0.00144	mg/Kg	☼		03/16/13 12:33	1
Bromodichloromethane	0.000842	U	0.00638	0.000842	mg/Kg	☼		03/16/13 12:33	1
1,2-Dichloroethene, Total	0.00242	U	0.0128	0.00242	mg/Kg	☼		03/16/13 12:33	1
Methyl tert-butyl ether	0.00233	U	0.00638	0.00233	mg/Kg	☼		03/16/13 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*73*		*50 - 130*		*03/16/13 12:33*	*1*
Dibromofluoromethane	*77*		*68 - 140*		*03/16/13 12:33*	*1*
4-Bromofluorobenzene	*116*		*57 - 140*		*03/16/13 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*69*		*61 - 130*		*03/16/13 12:33*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**78**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-5(0.5-1.5)

Lab Sample ID: 600-70064-22

Date Collected: 03/14/13 13:15
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 94.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.35		0.265	0.0271	mg/Kg	☼	03/15/13 15:45	03/18/13 17:20	1
Lead	178		0.529	0.111	mg/Kg	☼	03/15/13 15:45	03/18/13 17:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	94		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-6(0.5-1.1)

Lab Sample ID: 600-70064-23

Date Collected: 03/14/13 13:30
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 91.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	146		0.251	0.0258	mg/Kg	☼	03/15/13 15:45	03/18/13 17:24	1
Lead	620		0.502	0.105	mg/Kg	☼	03/15/13 15:45	03/18/13 17:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	91		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: DUP-7

Lab Sample ID: 600-70064-24

Date Collected: 03/14/13 00:00
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 93.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.26		0.258	0.0264	mg/Kg	☼	03/15/13 15:45	03/18/13 17:28	1
Lead	159		0.515	0.108	mg/Kg	☼	03/15/13 15:45	03/18/13 17:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	93		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-7(0.5-1.2)

Lab Sample ID: 600-70064-25

Date Collected: 03/14/13 14:00
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 91.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.65		0.258	0.0264	mg/Kg	☼	03/15/13 15:45	03/18/13 17:32	1
Lead	1430		0.515	0.108	mg/Kg	☼	03/15/13 15:45	03/18/13 17:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	92		1.0	1.0	%			03/15/13 10:21	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Client Sample ID: 2013-STB-8(0.8-1.3)

Lab Sample ID: 600-70064-26
Date Collected: 03/14/13 14:10
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 92.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**7.80**		0.251	0.0258	mg/Kg	☼	03/15/13 15:45	03/18/13 17:36	1
Lead	**1190**		0.503	0.105	mg/Kg	☼	03/15/13 15:45	03/18/13 17:36	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**92**		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-27
Date Collected: 03/14/13 14:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 92.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	53.7	U	896	53.7	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Anthracene	68.8	U	896	68.8	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Benzo[a]anthracene	74.2	U	896	74.2	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Benzo[b]fluoranthene	92.4	U	1790	92.4	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Benzo[k]fluoranthene	80.1	U	1790	80.1	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Benzo[g,h,i]perylene	272	U	896	272	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Benzo[a]pyrene	86.5	U	896	86.5	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Chrysene	54.8	U	896	54.8	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Dibenz(a,h)anthracene	195	U	896	195	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Fluoranthene	167	U	896	167	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Fluorene	127	U	896	127	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Indeno[1,2,3-cd]pyrene	188	U	1790	188	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
2-Methylnaphthalene	147	U	896	147	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Phenanthrene	266	U	896	266	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Pyrene	98.4	U	896	98.4	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
1-Methylnaphthalene	**336**	**J**	896	84.4	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Naphthalene	72.6	U	896	72.6	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10
Acenaphthene	77.4	U	896	77.4	ug/Kg	☼	03/21/13 09:40	03/21/13 19:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*0*	*X*	*26 - 108*	*03/21/13 09:40*	*03/21/13 19:59*	*10*
2,4,6-Tribromophenol	*0*	*X*	*34 - 122*	*03/21/13 09:40*	*03/21/13 19:59*	*10*
2-Fluorobiphenyl	*0*	*X*	*51 - 109*	*03/21/13 09:40*	*03/21/13 19:59*	*10*
2-Fluorophenol	*0*	*X*	*23 - 108*	*03/21/13 09:40*	*03/21/13 19:59*	*10*
Nitrobenzene-d5	*0*	*X*	*34 - 118*	*03/21/13 09:40*	*03/21/13 19:59*	*10*
Terphenyl-d14	*0*	*X*	*56 - 123*	*03/21/13 09:40*	*03/21/13 19:59*	*10*

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C6-C8 aliphatics	1.68	U	21.6	1.68	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C8-C10 aliphatics	**15.1**	**J**	21.6	1.75	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C10-C12 aliphatics	**19.3**	**J**	21.6	1.60	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C12-C16 aliphatics	**8.83**	**J**	21.6	4.31	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C16-C21 aliphatics	**22.9**		21.6	5.30	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C21-C35 aliphatics	**168**		21.6	2.61	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
nC6 Aliphatics	1.77	U	21.6	1.77	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-27

Date Collected: 03/14/13 14:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 92.8

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C7-C8 aromatics	11.7	J	21.6	2.26	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C8-C10 aromatics	6.17	J	21.6	4.57	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C10-C12 aromatics	4.81	J	21.6	1.08	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C12-C16 aromatics	13.3	J	21.6	3.53	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C16-C21 aromatics	31.4		21.6	1.38	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C21-C35 aromatics	383		21.6	1.94	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2
>C6-C35	684		21.6	5.30	mg/Kg	☼	03/22/13 12:17	03/22/13 14:34	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	16.6		0.252	0.0258	mg/Kg	☼	03/15/13 15:45	03/18/13 17:40	1
Lead	1100		0.504	0.106	mg/Kg	☼	03/15/13 15:45	03/18/13 17:40	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	93		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-6(0.5-1.1)

Lab Sample ID: 600-70064-28

Date Collected: 03/14/13 13:30
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.137		0.0110	0.00182	mg/Kg	☼		03/16/13 12:57	1
Benzene	0.0406		0.00549	0.000692	mg/Kg	☼		03/16/13 12:57	1
Chlorobromomethane	0.00196	U	0.00549	0.00196	mg/Kg	☼		03/16/13 12:57	1
Bromoform	0.00150	U	0.00549	0.00150	mg/Kg	☼		03/16/13 12:57	1
Bromomethane	0.000912	U	0.0110	0.000912	mg/Kg	☼		03/16/13 12:57	1
2-Butanone (MEK)	0.00209	U	0.0110	0.00209	mg/Kg	☼		03/16/13 12:57	1
Carbon disulfide	0.000604	U	0.0110	0.000604	mg/Kg	☼		03/16/13 12:57	1
Carbon tetrachloride	0.00124	U	0.00549	0.00124	mg/Kg	☼		03/16/13 12:57	1
Dibromochloromethane	0.00103	U	0.00549	0.00103	mg/Kg	☼		03/16/13 12:57	1
Chlorobenzene	0.00105	U	0.00549	0.00105	mg/Kg	☼		03/16/13 12:57	1
Chloroethane	0.00154	U	0.0110	0.00154	mg/Kg	☼		03/16/13 12:57	1
Chloroform	0.00128	J	0.00549	0.000725	mg/Kg	☼		03/16/13 12:57	1
Chloromethane	0.00182	U	0.0110	0.00182	mg/Kg	☼		03/16/13 12:57	1
1,1-Dichloroethane	0.000956	U	0.00549	0.000956	mg/Kg	☼		03/16/13 12:57	1
1,2-Dichloroethane	0.000989	U	0.00549	0.000989	mg/Kg	☼		03/16/13 12:57	1
1,1-Dichloroethene	0.00134	U	0.00549	0.00134	mg/Kg	☼		03/16/13 12:57	1
cis-1,2-Dichloroethene	0.000912	U	0.00549	0.000912	mg/Kg	☼		03/16/13 12:57	1
trans-1,2-Dichloroethene	0.00125	U	0.00549	0.00125	mg/Kg	☼		03/16/13 12:57	1
1,2-Dichloropropane	0.000780	U	0.00549	0.000780	mg/Kg	☼		03/16/13 12:57	1
cis-1,3-Dichloropropene	0.000593	U	0.00549	0.000593	mg/Kg	☼		03/16/13 12:57	1
trans-1,3-Dichloropropene	0.000637	U	0.00549	0.000637	mg/Kg	☼		03/16/13 12:57	1
Ethylbenzene	0.0765		0.00549	0.00112	mg/Kg	☼		03/16/13 12:57	1
2-Hexanone	0.00111	U	0.0110	0.00111	mg/Kg	☼		03/16/13 12:57	1
Methylene Chloride	0.00241	U	0.0110	0.00241	mg/Kg	☼		03/16/13 12:57	1
4-Methyl-2-pentanone (MIBK)	0.00161	U	0.0110	0.00161	mg/Kg	☼		03/16/13 12:57	1
Styrene	0.000780	U	0.00549	0.000780	mg/Kg	☼		03/16/13 12:57	1

Client Sample ID: 2013-STB-6(0.5-1.1)
Date Collected: 03/14/13 13:30
Date Received: 03/15/13 08:38

Lab Sample ID: 600-70064-28
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.000956	U	0.00549	0.000956	mg/Kg	☼		03/16/13 12:57	1
Tetrachloroethene	0.000780	U	0.00549	0.000780	mg/Kg	☼		03/16/13 12:57	1
Toluene	**0.0116**		0.00549	0.00152	mg/Kg	☼		03/16/13 12:57	1
1,1,1-Trichloroethane	0.000813	U	0.00549	0.000813	mg/Kg	☼		03/16/13 12:57	1
1,1,2-Trichloroethane	0.000802	U	0.00549	0.000802	mg/Kg	☼		03/16/13 12:57	1
Trichloroethene	0.00154	U	0.00549	0.00154	mg/Kg	☼		03/16/13 12:57	1
Vinyl acetate	0.00102	U	0.00549	0.00102	mg/Kg	☼		03/16/13 12:57	1
Vinyl chloride	0.000989	U	0.0110	0.000989	mg/Kg	☼		03/16/13 12:57	1
o-Xylene	**0.0148**		0.00549	0.00124	mg/Kg	☼		03/16/13 12:57	1
m-Xylene & p-Xylene	**0.0171**		0.0110	0.00167	mg/Kg	☼		03/16/13 12:57	1
Xylenes, Total	**0.0319**		0.00549	0.00124	mg/Kg	☼		03/16/13 12:57	1
Bromodichloromethane	0.000725	U	0.00549	0.000725	mg/Kg	☼		03/16/13 12:57	1
1,2-Dichloroethene, Total	0.00209	U	0.0110	0.00209	mg/Kg	☼		03/16/13 12:57	1
Methyl tert-butyl ether	0.00201	U	0.00549	0.00201	mg/Kg	☼		03/16/13 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*78*		*50 - 130*		*03/16/13 12:57*	*1*
Dibromofluoromethane	*86*		*68 - 140*		*03/16/13 12:57*	*1*
4-Bromofluorobenzene	*116*		*57 - 140*		*03/16/13 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*		*03/16/13 12:57*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	54.8	U	914	54.8	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Anthracene	70.2	U	914	70.2	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Benzo[a]anthracene	75.7	U	914	75.7	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Benzo[b]fluoranthene	94.3	U	1830	94.3	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Benzo[k]fluoranthene	81.7	U	1830	81.7	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Benzo[g,h,i]perylene	278	U	914	278	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Benzo[a]pyrene	88.3	U	914	88.3	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Chrysene	55.9	U	914	55.9	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Dibenz(a,h)anthracene	199	U	914	199	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Fluoranthene	171	U	914	171	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Fluorene	129	U	914	129	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Indeno[1,2,3-cd]pyrene	192	U	1830	192	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
2-Methylnaphthalene	**391**	**J**	914	150	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Phenanthrene	271	U	914	271	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Pyrene	100	U	914	100	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
1-Methylnaphthalene	**358**	**J**	914	86.1	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Naphthalene	74.0	U	914	74.0	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10
Acenaphthene	79.0	U	914	79.0	ug/Kg	☼	03/21/13 09:40	03/21/13 20:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*0*	*X*	*26 - 108*	*03/21/13 09:40*	*03/21/13 20:26*	*10*
2,4,6-Tribromophenol	*0*	*X*	*34 - 122*	*03/21/13 09:40*	*03/21/13 20:26*	*10*
2-Fluorobiphenyl	*0*	*X*	*51 - 109*	*03/21/13 09:40*	*03/21/13 20:26*	*10*
2-Fluorophenol	*0*	*X*	*23 - 108*	*03/21/13 09:40*	*03/21/13 20:26*	*10*
Nitrobenzene-d5	*0*	*X*	*34 - 118*	*03/21/13 09:40*	*03/21/13 20:26*	*10*
Terphenyl-d14	*0*	*X*	*56 - 123*	*03/21/13 09:40*	*03/21/13 20:26*	*10*

Client Sample ID: 2013-STB-6(0.5-1.1)

Lab Sample ID: 600-70064-28

Date Collected: 03/14/13 13:30
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 91.0

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	71.4		54.6	20.7	mg/Kg	☼	03/18/13 10:05	03/19/13 08:52	5
>C12-C28	550		54.6	22.2	mg/Kg	☼	03/18/13 10:05	03/19/13 08:52	5
>C28-C35	1130		54.6	22.2	mg/Kg	☼	03/18/13 10:05	03/19/13 08:52	5
C6-C35	1750		54.6	40.8	mg/Kg	☼	03/18/13 10:05	03/19/13 08:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*109*		*70 - 130*	*03/18/13 10:05*	*03/19/13 08:52*	*5*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	91		1.0	1.0	%			03/15/13 10:21	1

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-29

Date Collected: 03/14/13 14:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0361		0.0111	0.00184	mg/Kg	☼		03/16/13 13:21	1
Benzene	0.00440	J	0.00554	0.000698	mg/Kg	☼		03/16/13 13:21	1
Chlorobromomethane	0.00197	U	0.00554	0.00197	mg/Kg	☼		03/16/13 13:21	1
Bromoform	0.00152	U	0.00554	0.00152	mg/Kg	☼		03/16/13 13:21	1
Bromomethane	0.000919	U	0.0111	0.000919	mg/Kg	☼		03/16/13 13:21	1
2-Butanone (MEK)	0.00210	U	0.0111	0.00210	mg/Kg	☼		03/16/13 13:21	1
Carbon disulfide	0.000609	U	0.0111	0.000609	mg/Kg	☼		03/16/13 13:21	1
Carbon tetrachloride	0.00125	U	0.00554	0.00125	mg/Kg	☼		03/16/13 13:21	1
Dibromochloromethane	0.00104	U	0.00554	0.00104	mg/Kg	☼		03/16/13 13:21	1
Chlorobenzene	0.00106	U	0.00554	0.00106	mg/Kg	☼		03/16/13 13:21	1
Chloroethane	0.00155	U	0.0111	0.00155	mg/Kg	☼		03/16/13 13:21	1
Chloroform	0.00109	J	0.00554	0.000731	mg/Kg	☼		03/16/13 13:21	1
Chloromethane	0.00184	U	0.0111	0.00184	mg/Kg	☼		03/16/13 13:21	1
1,1-Dichloroethane	0.000963	U	0.00554	0.000963	mg/Kg	☼		03/16/13 13:21	1
1,2-Dichloroethane	0.000997	U	0.00554	0.000997	mg/Kg	☼		03/16/13 13:21	1
1,1-Dichloroethene	0.00135	U	0.00554	0.00135	mg/Kg	☼		03/16/13 13:21	1
cis-1,2-Dichloroethene	0.000919	U	0.00554	0.000919	mg/Kg	☼		03/16/13 13:21	1
trans-1,2-Dichloroethene	0.00126	U	0.00554	0.00126	mg/Kg	☼		03/16/13 13:21	1
1,2-Dichloropropane	0.000786	U	0.00554	0.000786	mg/Kg	☼		03/16/13 13:21	1
cis-1,3-Dichloropropene	0.000598	U	0.00554	0.000598	mg/Kg	☼		03/16/13 13:21	1
trans-1,3-Dichloropropene	0.000642	U	0.00554	0.000642	mg/Kg	☼		03/16/13 13:21	1
Ethylbenzene	0.0322		0.00554	0.00113	mg/Kg	☼		03/16/13 13:21	1
2-Hexanone	0.00112	U	0.0111	0.00112	mg/Kg	☼		03/16/13 13:21	1
Methylene Chloride	0.00242	U	0.0111	0.00242	mg/Kg	☼		03/16/13 13:21	1
4-Methyl-2-pentanone (MIBK)	0.00163	U	0.0111	0.00163	mg/Kg	☼		03/16/13 13:21	1
Styrene	0.000786	U	0.00554	0.000786	mg/Kg	☼		03/16/13 13:21	1
1,1,2,2-Tetrachloroethane	0.000963	U	0.00554	0.000963	mg/Kg	☼		03/16/13 13:21	1
Tetrachloroethene	0.000786	U	0.00554	0.000786	mg/Kg	☼		03/16/13 13:21	1
Toluene	0.00555		0.00554	0.00153	mg/Kg	☼		03/16/13 13:21	1
1,1,1-Trichloroethane	0.000819	U	0.00554	0.000819	mg/Kg	☼		03/16/13 13:21	1
1,1,2-Trichloroethane	0.000808	U	0.00554	0.000808	mg/Kg	☼		03/16/13 13:21	1

Client Sample ID: 2013-STB-11(0.5-1.3)
Date Collected: 03/14/13 14:20
Date Received: 03/15/13 08:38

Lab Sample ID: 600-70064-29
Matrix: Solid
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00155	U	0.00554	0.00155	mg/Kg	☼		03/16/13 13:21	1
Vinyl acetate	0.00103	U	0.00554	0.00103	mg/Kg	☼		03/16/13 13:21	1
Vinyl chloride	0.000997	U	0.0111	0.000997	mg/Kg	☼		03/16/13 13:21	1
o-Xylene	**0.00454**	**J**	0.00554	0.00125	mg/Kg	☼		03/16/13 13:21	1
m-Xylene & p-Xylene	0.00168	U	0.0111	0.00168	mg/Kg	☼		03/16/13 13:21	1
Xylenes, Total	**0.00454**	**J**	0.00554	0.00125	mg/Kg	☼		03/16/13 13:21	1
Bromodichloromethane	0.000731	U	0.00554	0.000731	mg/Kg	☼		03/16/13 13:21	1
1,2-Dichloroethene, Total	0.00210	U	0.0111	0.00210	mg/Kg	☼		03/16/13 13:21	1
Methyl tert-butyl ether	0.00203	U	0.00554	0.00203	mg/Kg	☼		03/16/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*77*		*50 - 130*		*03/16/13 13:21*	*1*
Dibromofluoromethane	*79*		*68 - 140*		*03/16/13 13:21*	*1*
4-Bromofluorobenzene	*116*		*57 - 140*		*03/16/13 13:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*73*		*61 - 130*		*03/16/13 13:21*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**55.5**		55.1	20.9	mg/Kg	☼	03/18/13 10:05	03/19/13 09:29	5
>C12-C28	**416**		55.1	22.4	mg/Kg	☼	03/18/13 10:05	03/19/13 09:29	5
>C28-C35	**1380**		55.1	22.4	mg/Kg	☼	03/18/13 10:05	03/19/13 09:29	5
C6-C35	**1850**		55.1	41.2	mg/Kg	☼	03/18/13 10:05	03/19/13 09:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*70 - 130*	*03/18/13 10:05*	*03/19/13 09:29*	*5*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		1.0	1.0	%			03/15/13 10:21	1
Percent Solids	**90**		1.0	1.0	%			03/15/13 10:21	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
X	Surrogate is outside control limits
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-70064-19	2013-MB-1(4-5)	78	80	124	80
600-70064-20	2013-MB-1(0-2)	79	83	123	79
600-70064-21	2013-MB-2(0-2)	73	77	116	69
600-70064-28	2013-STB-6(0.5-1.1)	78	86	116	81
600-70064-29	2013-STB-11(0.5-1.3)	77	79	116	73
LCS 600-101822/5	Lab Control Sample	89	91	124	81
MB 600-101822/6	Method Blank	75	79	117	90

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		PHL	TBP	FBP	2FP	NBZ	TPH
Lab Sample ID	Client Sample ID	(26-108)	(34-122)	(51-109)	(23-108)	(34-118)	(56-123)
600-70064-27	2013-STB-11(0.5-1.3)	0 X	0 X	0 X	0 X	0 X	0 X
600-70064-28	2013-STB-6(0.5-1.1)	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-102162/2-A	Lab Control Sample	99	88	92	96	89	92
LCSD 600-102162/3-A	Lab Control Sample Dup	98	96	92	94	89	96
MB 600-102162/1-A	Method Blank	88	89	93	88	78	85

Surrogate Legend

PHL = Phenol-d6
TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(70-130)
600-70064-28	2013-STB-6(0.5-1.1)	109
600-70064-29	2013-STB-11(0.5-1.3)	86
LCS 600-101862/2-A	Lab Control Sample	90
MB 600-101862/1-A	Method Blank	82

Surrogate Legend

OTPH = o-Terphenyl

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-101822/6
Matrix: Solid
Analysis Batch: 101822

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	3	0.0100	0.00166	mg/2g			0K/16/1K 10:10	1
Ben8ene	0.0006K0	3	0.00500	0.0006K0	mg/2g			0K/16/1K 10:10	1
Chlorobromomethane	0.0017%	3	0.00500	0.0017%	mg/2g			0K/16/1K 10:10	1
Bromo9brm	0.001K7	3	0.00500	0.001K7	mg/2g			0K/16/1K 10:10	1
Bromomethane	0.000%K0	3	0.0100	0.000%K0	mg/2g			0K/16/1K 10:10	1
u-Bztanone Uf E2p	0.001H0	3	0.0100	0.001H0	mg/2g			0K/16/1K 10:10	1
Carbon diszl9de	0.000550	3	0.0100	0.000550	mg/2g			0K/16/1K 10:10	1
Carbon tetrachloride	0.0011K	3	0.00500	0.0011K	mg/2g			0K/16/1K 10:10	1
Dibromochloromethane	0.000H40	3	0.00500	0.000H40	mg/2g			0K/16/1K 10:10	1
Chloroben8ene	0.000H60	3	0.00500	0.000H60	mg/2g			0K/16/1K 10:10	1
Chloroethane	0.00140	3	0.0100	0.00140	mg/2g			0K/16/1K 10:10	1
Chloro9brm	0.000660	3	0.00500	0.000660	mg/2g			0K/16/1K 10:10	1
Chloromethane	0.00166	3	0.0100	0.00166	mg/2g			0K/16/1K 10:10	1
1,1-Dichloroethane	0.000%70	3	0.00500	0.000%70	mg/2g			0K/16/1K 10:10	1
1,u-Dichloroethane	0.000H00	3	0.00500	0.000H00	mg/2g			0K/16/1K 10:10	1
1,1-Dichloroethene	0.001uu	3	0.00500	0.001uu	mg/2g			0K/16/1K 10:10	1
cis-1,u-Dichloroethene	0.000%K0	3	0.00500	0.000%K0	mg/2g			0K/16/1K 10:10	1
trans-1,u-Dichloroethene	0.00114	3	0.00500	0.00114	mg/2g			0K/16/1K 10:10	1
1,u-DichloroMoMane	0.000710	3	0.00500	0.000710	mg/2g			0K/16/1K 10:10	1
cis-1,K-DichloroMoMene	0.000540	3	0.00500	0.000540	mg/2g			0K/16/1K 10:10	1
trans-1,K-DichloroMoMene	0.0005%0	3	0.00500	0.0005%0	mg/2g			0K/16/1K 10:10	1
Ethylben8ene	0.0010u	3	0.00500	0.0010u	mg/2g			0K/16/1K 10:10	1
u-(exanone	0.00101	3	0.0100	0.00101	mg/2g			0K/16/1K 10:10	1
f ethylene Chloride	0.00u1H	3	0.0100	0.00u1H	mg/2g			0K/16/1K 10:10	1
4-f ethyl-u-Mentanone Uf IB2p	0.00147	3	0.0100	0.00147	mg/2g			0K/16/1K 10:10	1
Styrene	0.000710	3	0.00500	0.000710	mg/2g			0K/16/1K 10:10	1
1,1,u,u-Tetrachloroethane	0.000%70	3	0.00500	0.000%70	mg/2g			0K/16/1K 10:10	1
Tetrachloroethene	0.000710	3	0.00500	0.000710	mg/2g			0K/16/1K 10:10	1
Tolzene	0.001K%	3	0.00500	0.001K%	mg/2g			0K/16/1K 10:10	1
1,1,1-Trichloroethane	0.000740	3	0.00500	0.000740	mg/2g			0K/16/1K 10:10	1
1,1,u-Trichloroethane	0.0007K0	3	0.00500	0.0007K0	mg/2g			0K/16/1K 10:10	1
Trichloroethene	0.00140	3	0.00500	0.00140	mg/2g			0K/16/1K 10:10	1
) inyl acetate	0.000HK0	3	0.00500	0.000HK0	mg/2g			0K/16/1K 10:10	1
) inyl chloride	0.000H00	3	0.0100	0.000H00	mg/2g			0K/16/1K 10:10	1
o-Xylene	0.0011K	3	0.00500	0.0011K	mg/2g			0K/16/1K 10:10	1
m-Xylene & M-Xylene	0.0015u	3	0.0100	0.0015u	mg/2g			0K/16/1K 10:10	1
Xylenes, Total	0.0011K	3	0.00500	0.0011K	mg/2g			0K/16/1K 10:10	1
Bromodichloromethane	0.000660	3	0.00500	0.000660	mg/2g			0K/16/1K 10:10	1
1,u-Dichloroethene, Total	0.001H0	3	0.0100	0.001H0	mg/2g			0K/16/1K 10:10	1
f ethyl tert-bztyl ether	0.001%K	3	0.00500	0.001%K	mg/2g			0K/16/1K 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*75*		*50 - 130*		*03/16/13 10:10*	*1*
Dibromofluoromethane	*79*		*68 - 140*		*03/16/13 10:10*	*1*
4-Bromofluorobenzene	*117*		*57 - 140*		*03/16/13 10:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*		*03/16/13 10:10*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-101822/5
Matrix: Solid
Analysis Batch: 101822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.0%04H		mg/2g		%0	44 - 1K6
Ben8ene	0.0500	0.046KK		mg/2g		HK	66 - 1u%
Chlorobromomethane	0.0500	0.0457H		mg/2g		Hu	60 - 140
Bromo9orm	0.0500	0.0511%		mg/2g		10u	50 - 1K0
Bromomethane	0.0500	0.0454%		mg/2g		H1	u%- 164
u-Bztanone Uf E2p	0.100	0.0%u71		mg/2g		%K	4u - 1%6
Carbon diszl9de	0.0500	0.044Hu		mg/2g		H0	5K - 176
Carbon tetrachloride	0.0500	0.0400u		mg/2g		%0	6K - 1Ku
Dibromochloromethane	0.0500	0.046Hu		mg/2g		H4	6K - 1u5
Chloroben8ene	0.0500	0.05u55		mg/2g		105	67 - 1u6
Chloroethane	0.0500	0.0454%		mg/2g		H1	K0 - 1K6
Chloro9orm	0.0500	0.05116		mg/2g		10u	67 - 1u6
Chloromethane	0.0500	0.044u4		mg/2g		%%	u1 - 15K
1,1-Dichloroethane	0.0500	0.051u4		mg/2g		10u	64 - 1K0
1,u-Dichloroethane	0.0500	0.0500K		mg/2g		100	61 - 1K5
1,1-Dichloroethene	0.0500	0.04u%u		mg/2g		%6	40 - 157
cis-1,u-Dichloroethene	0.0500	0.046u4		mg/2g		Hu	6u - 1K0
trans-1,u-Dichloroethene	0.0500	0.044%%		mg/2g		H0	65 - 1K0
1,u-DichloroMoMane	0.0500	0.055%%		mg/2g		11u	71 - 1uu
cis-1,K-DichloroMoMene	0.0500	0.0511u		mg/2g		10u	66 - 1uH
trans-1,K-DichloroMoMene	0.0500	0.05%%u		mg/2g		11%	66 - 1K4
Ethylben8ene	0.0500	0.047Hu		mg/2g		H6	64 - 1u7
u-(exanone	0.100	0.0H441		mg/2g		H4	5u - 14u
f ethylene Chloride	0.0500	0.0KuHK		mg/2g		66	4%- 144
4-f ethyl-u-Mentanone Uf IB2p	0.100	0.0Hu1H		mg/2g		Hu	5u - 146
Styrene	0.0500	0.05K01		mg/2g		106	6K - 1u%
1,1,u,u-Tetrachloroethane	0.0500	0.055K7		mg/2g		111	5H - 1K4
Tetrachloroethene	0.0500	0.0507u		mg/2g		101	6H - 1u5
Tolzene	0.0500	0.04%4H		mg/2g		H7	6H - 1u5
1,1,1-Trichloroethane	0.0500	0.04500		mg/2g		H0	70 - 1u7
1,1,u-Trichloroethane	0.0500	0.05uuK		mg/2g		104	67 - 1u4
Trichloroethene	0.0500	0.04%uH		mg/2g		H7	70 - 1K6
) inyl acetate	0.0500	0.04KuK		mg/2g		%6	54 - 1K6
) inyl chloride	0.0500	0.04u6K		mg/2g		%5	u%- 15H
o-Xylene	0.0500	0.05K57		mg/2g		107	64 - 1Ku
m-Xylene & M-Xylene	0.100	0.1006		mg/2g		101	65 - 1u%
Xylenes, Total	0.150	0.154u		mg/2g		10K	65 - 1uH
Bromodichloromethane	0.0500	0.05K6K		mg/2g		107	6%- 1u1
1,u-Dichloroethene, Total	0.100	0.0H11u		mg/2g		H1	6u - 1K0
f ethyl tert-bztyl ether	0.0500	0.04%%6		mg/2g		H%	4H - 15u

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*50 - 130*
Dibromofluoromethane	*91*		*68 - 140*
4-Bromofluorobenzene	*124*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-102162/1-A
Matrix: Solid
Analysis Batch: 102319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102162

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
AcenaMthylene	1.00	3	16.7	1.00	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Anthracene	1.u%	3	16.7	1.u%	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Ben8o\e[anthracene	1.K%	3	16.7	1.K%	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Ben8o\b[9zoranthene	1.7u	3	KK.K	1.7u	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Ben8o\j[9zoranthene	1.4H	3	KK.K	1.4H	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Ben8o\g,h,i[Merylene	5.07	3	16.7	5.07	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Ben8o\e[Myrene	1.61	3	16.7	1.61	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Chrysene	1.0u	3	16.7	1.0u	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Diben8La,hpanthracene	K.6K	3	16.7	K.6K	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Flzoranthene	K.11	3	16.7	K.11	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Flzorene	u.K6	3	16.7	u.K6	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
IndenoV1,u,K-cd[Myrene	K.50	3	KK.K	K.50	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
u-f ethylnaMthalene	u.74	3	16.7	u.74	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Phenanthrene	4.H5	3	16.7	4.H5	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
Pyrene	1.%K	3	16.7	1.%K	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
1-f ethylnaMthalene	1.57	3	16.7	1.57	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
k aMthalene	1.K5	3	16.7	1.K5	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1
AcenaMthene	1.44	3	16.7	1.44	zg/2g		0K/u1/1K 0H:40	0K/u1/1K 1%1u	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*88*		*26 - 108*	*03/21/13 09:40*	*03/21/13 18:12*	*1*
2,4,6-Tribromophenol	*89*		*34 - 122*	*03/21/13 09:40*	*03/21/13 18:12*	*1*
2-Fluorobiphenyl	*93*		*51 - 109*	*03/21/13 09:40*	*03/21/13 18:12*	*1*
2-Fluorophenol	*88*		*23 - 108*	*03/21/13 09:40*	*03/21/13 18:12*	*1*
Nitrobenzene-d5	*78*		*34 - 118*	*03/21/13 09:40*	*03/21/13 18:12*	*1*
Terphenyl-d14	*85*		*56 - 123*	*03/21/13 09:40*	*03/21/13 18:12*	*1*

Lab Sample ID: LCS 600-102162/2-A
Matrix: Solid
Analysis Batch: 102319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
AcenaMthylene	KKK	uH%5		zg/2g		H0	51 - 1uu
Anthracene	KKK	KK7.5		zg/2g		101	5u - 1u0
Ben8o\e[anthracene	KKK	uH6.H		zg/2g		%H	4H - 1u4
Ben8o\b[9zoranthene	KKK	KuH.5		zg/2g		HH	5%- 1K0
Ben8o\j[9zoranthene	KKK	uH4.5		zg/2g		%%	56 - 1uH
Ben8o\g,h,i[Merylene	KKK	1H0.7		zg/2g		57	50 - 140
Ben8o\e[Myrene	KKK	uH7.0		zg/2g		%H	5%- 1uK
Chrysene	KKK	K10.%		zg/2g		HK	50 - 1uK
Diben8La,hpanthracene	KKK	u57.u		zg/2g		77	55 - 141
Flzoranthene	KKK	K44.%		zg/2g		10K	56 - 1uK
Flzorene	KKK	u70.5		zg/2g		%1	5u - 147
IndenoV1,u,K-cd[Myrene	KKK	uK0.4		zg/2g		6H	40 - 147
u-f ethylnaMthalene	KKK	u66.4		zg/2g		%0	54 - 1K0
Phenanthrene	KKK	K1H.5		zg/2g		H6	55 - 1u0
Pyrene	KKK	K00.%		zg/2g		H0	4%- 1K1
1-f ethylnaMthalene	KKK	K0K.7		zg/2g		H1	44 - 1uH

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-102162/2-A
Matrix: Solid
Analysis Batch: 102319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102162

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
k aMthalene			KKK	Kuu.1		zg/2g		H7	5u - 117		
AcenaMthene			KKK	u%4.6		zg/2g		%5	5%- 1u5		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d6	*99*		*26 - 108*
2,4,6-Tribromophenol	*88*		*34 - 122*
2-Fluorobiphenyl	*92*		*51 - 109*
2-Fluorophenol	*96*		*23 - 108*
Nitrobenzene-d5	*89*		*34 - 118*
Terphenyl-d14	*92*		*56 - 123*

Lab Sample ID: LCSD 600-102162/3-A
Matrix: Solid
Analysis Batch: 102319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
AcenaMthylene			KKK	uH%0		zg/2g		H0	51 - 1uu	0	K0
Anthracene			KKK	K41.6		zg/2g		10K	5u - 1u0	1	K0
Ben8o\a[anthracene			KKK	K00.%		zg/2g		H0	4H - 1u4	1	K0
Ben8o\b[9zoranthene			KKK	KK5.K		zg/2g		101	5%- 1K0	u	K0
Ben8o\Y[9zoranthene			KKK	K1%1		zg/2g		H6	56 - 1uH	%	K0
Ben8o\g,h,i[Merylene			KKK	1%6.7		zg/2g		56	50 - 140	u	K0
Ben8o\a[Myrene			KKK	K00.u		zg/2g		H0	5%- 1uK	1	K0
Chrysene			KKK	K1K.H		zg/2g		H4	50 - 1uK	1	K0
Diben8\a,hpanthracene			KKK	u65.H		zg/2g		%0	55 - 141	K	K0
Flzoranthene			KKK	K4%6		zg/2g		105	56 - 1uK	1	K0
Flzorene			KKK	u77.H		zg/2g		%4	5u - 147	K	K0
IndenoV1,u,K-cd[Myrene			KKK	uKu.5		zg/2g		70	40 - 147	1	K0
u-f ethylnaMthalene			KKK	u64.0		zg/2g		7H	54 - 1K0	1	K0
Phenanthrene			KKK	KuK.u		zg/2g		H7	55 - 1u0	1	K0
Pyrene			KKK	K0u.7		zg/2g		H1	4%- 1K1	1	K0
1-f ethylnaMthalene			KKK	uH5.K		zg/2g		%H	44 - 1uH	K	K0
k aMthalene			KKK	K16.7		zg/2g		H5	5u - 117	u	K0
AcenaMthene			KKK	u%K.0		zg/2g		%5	5%- 1u5	1	K0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d6	*98*		*26 - 108*
2,4,6-Tribromophenol	*96*		*34 - 122*
2-Fluorobiphenyl	*92*		*51 - 109*
2-Fluorophenol	*94*		*23 - 108*
Nitrobenzene-d5	*89*		*34 - 118*
Terphenyl-d14	*96*		*56 - 123*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-101862/1-A
Matrix: Solid
Analysis Batch: 101954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101862

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C1u	K.%0	3	10.0	K.%0	mg/2g		0K/1%1K 10:05	0K/1%1K 14:K0	1
NC1u-Cu%	4.06	3	10.0	4.06	mg/2g		0K/1%1K 10:05	0K/1%1K 14:K0	1
NCu%CK5	4.06	3	10.0	4.06	mg/2g		0K/1%1K 10:05	0K/1%1K 14:K0	1
C6-CK5	7.4%	3	10.0	7.4%	mg/2g		0K/1%1K 10:05	0K/1%1K 14:K0	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*70 - 130*	*03/18/13 10:05*	*03/18/13 14:30*	*1*

Lab Sample ID: LCS 600-101862/2-A
Matrix: Solid
Analysis Batch: 101954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C1u			u50	u00.5		mg/2g		%0	75 - 1u5		
NC1u-Cu%			u50	uu4.7		mg/2g		H0	75 - 1u5		
C6-CK5			500	4u5.1		mg/2g		%5	75 - 1u5		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*70 - 130*

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Lab Sample ID: MB 600-102324/1-A
Matrix: Solid
Analysis Batch: 102450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102324

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
NC6-C%aliMhatics	0.7%0	3	10.0	0.7%0	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC%C10 aliMhatics	0.%i0	3	10.0	0.%i0	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC10-C1u aliMhatics	0.740	3	10.0	0.740	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC1u-C16 aliMhatics	u.00	3	10.0	u.00	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC16-Cu1 aliMhatics	u.46	3	10.0	u.46	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NCu1-CK5 aliMhatics	1.u1	3	10.0	1.u1	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
nC6 AliMhatics	0.%u0	3	10.0	0.%u0	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC7-C%aromatics	1.05	3	10.0	1.05	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC%C10 aromatics	u.1u	3	10.0	u.1u	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC10-C1u aromatics	0.500	3	10.0	0.500	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC1u-C16 aromatics	1.64	3	10.0	1.64	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC16-Cu1 aromatics	0.640	3	10.0	0.640	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NCu1-CK5 aromatics	0.H00	3	10.0	0.H00	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1
NC6-CK5	u.46	3	10.0	u.46	mg/2g		0K/uu/1K 1u:17	0K/uu/1K 1K:u5	1

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC) (Continued)

Lab Sample ID: LCS 600-102324/2-A
Matrix: Solid
Analysis Batch: 102450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NC6-CK5	4K7	4%5.%		mg/2g		111	60 - 140

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101811/1-A
Matrix: Solid
Analysis Batch: 101898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101811

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmizm	0.0u56	3	0.u50	0.0u56	mg/2g		0K/15/1K 15:45	0K/1%/1K 16:K0	1
Lead	0.105	3	0.500	0.105	mg/2g		0K/15/1K 15:45	0K/1%/1K 16:K0	1

Lab Sample ID: LCSSRM 600-101811/2-A
Matrix: Solid
Analysis Batch: 101898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101811

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmizm	10K	H%11		mg/2g		H5.K	%K.6 - 115.5
Lead	76.H	74.u%		mg/2g		H6.6	%1.K - 11%7

Lab Sample ID: 600-70064-4 MS
Matrix: Solid
Analysis Batch: 101898

Client Sample ID: 2013-TS-1(0-0.5)
Prep Type: Total/NA
Prep Batch: 101811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmizm	0.1%K	J	uH.5	u5.4%		mg/2g	☼	%6	75 - 1u5
Lead	10.u		5H0	74K.6	k	mg/2g	☼	1u44	75 - 1u5

Lab Sample ID: 600-70064-4 MSD
Matrix: Solid
Analysis Batch: 101898

Client Sample ID: 2013-TS-1(0-0.5)
Prep Type: Total/NA
Prep Batch: 101811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmizm	0.1%K	J	K0.H	u6.Ku		mg/2g	☼	%5	75 - 1u5	K	u0
Lead	10.u		61.%	775.7	k	mg/2g	☼	1uK%	75 - 1u5	4	u0

Lab Sample ID: 600-70064-4 DU
Matrix: Solid
Analysis Batch: 101898

Client Sample ID: 2013-TS-1(0-0.5)
Prep Type: Total/NA
Prep Batch: 101811

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmizm	0.1%K	J	0.1%H5	J	mg/2g	☼	4	u0
Lead	10.u		10.4K		mg/2g	☼	u	u0

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Method: Moisture - Percent Moisture

Lab Sample ID: 600-70064-26 DU
Matrix: Solid
Analysis Batch: 101755

Client Sample ID: 2013-STB-8(0.8-1.3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent f oistzre	7.H			6.H		>				14	u0
Percent Solids	Hu			HK		>				1	u0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1-Methylnaphthalene	16.7	1.57	ug/Kg	8270C LL
2-Methylnaphthalene	16.7	2.74	ug/Kg	8270C LL
Acenaphthene	16.7	1.44	ug/Kg	8270C LL
Acenaphthylene	16.7	1.00	ug/Kg	8270C LL
Anthracene	16.7	1.28	ug/Kg	8270C LL
Benzo[a]anthracene	16.7	1.38	ug/Kg	8270C LL
Benzo[a]pyrene	16.7	1.61	ug/Kg	8270C LL
Benzo[b]fluoranthene	33.3	1.72	ug/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
Benzo[g,h,i]perylene	16.7	5.07	ug/Kg	8270C LL
Benzo[k]fluoranthene	33.3	1.49	ug/Kg	8270C LL
Chrysene	16.7	1.02	ug/Kg	8270C LL
Dibenz(a,h)anthracene	16.7	3.63	ug/Kg	8270C LL
Fluoranthene	16.7	3.11	ug/Kg	8270C LL
Fluorene	16.7	2.36	ug/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	33.3	3.50	ug/Kg	8270C LL
Naphthalene	16.7	1.35	ug/Kg	8270C LL
Phenanthrene	16.7	4.95	ug/Kg	8270C LL
Pyrene	16.7	1.83	ug/Kg	8270C LL

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	10.0	4.06	mg/Kg	TX 1005
>C28-C35	10.0	4.06	mg/Kg	TX 1005
C6-C12	10.0	3.80	mg/Kg	TX 1005
C6-C35	10.0	7.48	mg/Kg	TX 1005

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Analyte	MQL	MDL	Units	Method
>C10-C12 aliphatics	10.0	0.740	mg/Kg	TX 1006
>C10-C12 aromatics	10.0	0.500	mg/Kg	TX 1006
>C12-C16 aliphatics	10.0	2.00	mg/Kg	TX 1006
>C12-C16 aromatics	10.0	1.64	mg/Kg	TX 1006
>C16-C21 aliphatics	10.0	2.46	mg/Kg	TX 1006
>C16-C21 aromatics	10.0	0.640	mg/Kg	TX 1006
>C21-C35 aliphatics	10.0	1.21	mg/Kg	TX 1006
>C21-C35 aromatics	10.0	0.900	mg/Kg	TX 1006
>C6-C35	10.0	2.46	mg/Kg	TX 1006
>C6-C8 aliphatics	10.0	0.780	mg/Kg	TX 1006
>C7-C8 aromatics	10.0	1.05	mg/Kg	TX 1006
>C8-C10 aliphatics	10.0	0.810	mg/Kg	TX 1006
>C8-C10 aromatics	10.0	2.12	mg/Kg	TX 1006
nC6 Aliphatics	10.0	0.820	mg/Kg	TX 1006

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Analysis Batch: 101822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-19	2013-MB-1(4-5)	Total/NA	Solid	8260B	
600-70064-20	2013-MB-1(0-2)	Total/NA	Solid	8260B	
600-70064-21	2013-MB-2(0-2)	Total/NA	Solid	8260B	
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	8260B	
600-70064-29	2013-STB-11(0.5-1.3)	Total/NA	Solid	8260B	
LCS 600-101822/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-101822/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 102162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	3550B	
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	3550B	
LCS 600-102162/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 600-102162/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 600-102162/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 102319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	8270C LL	102162
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	8270C LL	102162
LCS 600-102162/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	102162
LCSD 600-102162/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C LL	102162
MB 600-102162/1-A	Method Blank	Total/NA	Solid	8270C LL	102162

GC Semi VOA

Prep Batch: 101862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	TX_1005_S_Prep	
600-70064-29	2013-STB-11(0.5-1.3)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-101862/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-101862/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 101954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	TX 1005	101862
600-70064-29	2013-STB-11(0.5-1.3)	Total/NA	Solid	TX 1005	101862
LCS 600-101862/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	101862
MB 600-101862/1-A	Method Blank	Total/NA	Solid	TX 1005	101862

Prep Batch: 102185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	TX 1006 Frac	

GC Semi VOA (Continued)

Prep Batch: 102324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-102324/2-A	Lab Control Sample	Total/NA	Solid	TX 1006 Frac	
MB 600-102324/1-A	Method Blank	Total/NA	Solid	TX 1006 Frac	

Analysis Batch: 102450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	TX 1006	102185
LCS 600-102324/2-A	Lab Control Sample	Total/NA	Solid	TX 1006	102324
MB 600-102324/1-A	Method Blank	Total/NA	Solid	TX 1006	102324

Metals

Prep Batch: 101811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-1	2013-TS-2 (0-0.5)	Total/NA	Solid	3050B	
600-70064-4	2013-TS-1(0-0.5)	Total/NA	Solid	3050B	
600-70064-4 DU	2013-TS-1(0-0.5)	Total/NA	Solid	3050B	
600-70064-4 MS	2013-TS-1(0-0.5)	Total/NA	Solid	3050B	
600-70064-4 MSD	2013-TS-1(0-0.5)	Total/NA	Solid	3050B	
600-70064-7	2013-FOP-1 (0-0.5)	Total/NA	Solid	3050B	
600-70064-11	2013-AD-1(0-0.5)	Total/NA	Solid	3050B	
600-70064-14	2013-MB-1(0-2)	Total/NA	Solid	3050B	
600-70064-17	2013-MB-2(0-2)	Total/NA	Solid	3050B	
600-70064-22	2013-STB-5(0.5-1.5)	Total/NA	Solid	3050B	
600-70064-23	2013-STB-6(0.5-1.1)	Total/NA	Solid	3050B	
600-70064-24	DUP-7	Total/NA	Solid	3050B	
600-70064-25	2013-STB-7(0.5-1.2)	Total/NA	Solid	3050B	
600-70064-26	2013-STB-8(0.8-1.3)	Total/NA	Solid	3050B	
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	3050B	
LCSSRM 600-101811/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101811/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-1	2013-TS-2 (0-0.5)	Total/NA	Solid	6010B	101811
600-70064-4	2013-TS-1(0-0.5)	Total/NA	Solid	6010B	101811
600-70064-4 DU	2013-TS-1(0-0.5)	Total/NA	Solid	6010B	101811
600-70064-4 MS	2013-TS-1(0-0.5)	Total/NA	Solid	6010B	101811
600-70064-4 MSD	2013-TS-1(0-0.5)	Total/NA	Solid	6010B	101811
600-70064-7	2013-FOP-1 (0-0.5)	Total/NA	Solid	6010B	101811
600-70064-11	2013-AD-1(0-0.5)	Total/NA	Solid	6010B	101811
600-70064-14	2013-MB-1(0-2)	Total/NA	Solid	6010B	101811
600-70064-17	2013-MB-2(0-2)	Total/NA	Solid	6010B	101811
600-70064-22	2013-STB-5(0.5-1.5)	Total/NA	Solid	6010B	101811
600-70064-23	2013-STB-6(0.5-1.1)	Total/NA	Solid	6010B	101811
600-70064-24	DUP-7	Total/NA	Solid	6010B	101811
600-70064-25	2013-STB-7(0.5-1.2)	Total/NA	Solid	6010B	101811
600-70064-26	2013-STB-8(0.8-1.3)	Total/NA	Solid	6010B	101811
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	6010B	101811
LCSSRM 600-101811/2-A	Lab Control Sample	Total/NA	Solid	6010B	101811
MB 600-101811/1-A	Method Blank	Total/NA	Solid	6010B	101811

Metals (Continued)

Analysis Batch: 101960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-7	2013-FOP-1 (0-0.5)	Total/NA	Solid	6010B	101811

General Chemistry

Analysis Batch: 101755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-1	2013-TS-2 (0-0.5)	Total/NA	Solid	Moisture	
600-70064-4	2013-TS-1(0-0.5)	Total/NA	Solid	Moisture	
600-70064-4 MS	2013-TS-1(0-0.5)	Total/NA	Solid	Moisture	
600-70064-4 MSD	2013-TS-1(0-0.5)	Total/NA	Solid	Moisture	
600-70064-7	2013-FOP-1 (0-0.5)	Total/NA	Solid	Moisture	
600-70064-11	2013-AD-1(0-0.5)	Total/NA	Solid	Moisture	
600-70064-14	2013-MB-1(0-2)	Total/NA	Solid	Moisture	
600-70064-17	2013-MB-2(0-2)	Total/NA	Solid	Moisture	
600-70064-19	2013-MB-1(4-5)	Total/NA	Solid	Moisture	
600-70064-20	2013-MB-1(0-2)	Total/NA	Solid	Moisture	
600-70064-21	2013-MB-2(0-2)	Total/NA	Solid	Moisture	
600-70064-22	2013-STB-5(0.5-1.5)	Total/NA	Solid	Moisture	
600-70064-23	2013-STB-6(0.5-1.1)	Total/NA	Solid	Moisture	
600-70064-24	DUP-7	Total/NA	Solid	Moisture	
600-70064-25	2013-STB-7(0.5-1.2)	Total/NA	Solid	Moisture	
600-70064-26	2013-STB-8(0.8-1.3)	Total/NA	Solid	Moisture	
600-70064-26 DU	2013-STB-8(0.8-1.3)	Total/NA	Solid	Moisture	
600-70064-27	2013-STB-11(0.5-1.3)	Total/NA	Solid	Moisture	
600-70064-28	2013-STB-6(0.5-1.1)	Total/NA	Solid	Moisture	
600-70064-29	2013-STB-11(0.5-1.3)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-TS-2 (0-0.5)

Lab Sample ID: 600-70064-1

Date Collected: 03/14/13 09:15

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 16:38	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-TS-1(0-0.5)

Lab Sample ID: 600-70064-4

Date Collected: 03/14/13 09:35

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 16:42	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-FOP-1 (0-0.5)

Lab Sample ID: 600-70064-7

Date Collected: 03/14/13 10:20

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 16:57	DCL	TAL HOU
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		10	101960	03/19/13 08:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-AD-1(0-0.5)

Lab Sample ID: 600-70064-11

Date Collected: 03/14/13 10:35

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-MB-1(0-2)

Lab Sample ID: 600-70064-14

Date Collected: 03/14/13 11:20

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:05	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-MB-2(0-2) — **Lab Sample ID: 600-70064-17**
Date Collected: 03/14/13 11:00 — **Matrix: Solid**
Date Received: 03/15/13 08:38 — **Percent Solids: 75.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-MB-1(4-5) — **Lab Sample ID: 600-70064-19**
Date Collected: 03/14/13 11:20 — **Matrix: Solid**
Date Received: 03/15/13 08:38 — **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101822	03/16/13 11:46	WS	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-MB-1(0-2) — **Lab Sample ID: 600-70064-20**
Date Collected: 03/14/13 11:20 — **Matrix: Solid**
Date Received: 03/15/13 08:38 — **Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101822	03/16/13 12:09	WS	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-MB-2(0-2) — **Lab Sample ID: 600-70064-21**
Date Collected: 03/14/13 11:00 — **Matrix: Solid**
Date Received: 03/15/13 08:38 — **Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101822	03/16/13 12:33	WS	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-5(0.5-1.5) — **Lab Sample ID: 600-70064-22**
Date Collected: 03/14/13 13:15 — **Matrix: Solid**
Date Received: 03/15/13 08:38 — **Percent Solids: 94.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-6(0.5-1.1)

Lab Sample ID: 600-70064-23

Date Collected: 03/14/13 13:30
Date Received: 03/15/13 08:38

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: DUP-7

Lab Sample ID: 600-70064-24

Date Collected: 03/14/13 00:00
Date Received: 03/15/13 08:38

Matrix: Solid
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:28	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-7(0.5-1.2)

Lab Sample ID: 600-70064-25

Date Collected: 03/14/13 14:00
Date Received: 03/15/13 08:38

Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:32	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-8(0.8-1.3)

Lab Sample ID: 600-70064-26

Date Collected: 03/14/13 14:10
Date Received: 03/15/13 08:38

Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:36	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-27

Date Collected: 03/14/13 14:20
Date Received: 03/15/13 08:38

Matrix: Solid
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			102162	03/21/13 09:40	ET	TAL HOU
Total/NA	Analysis	8270C LL		10	102319	03/21/13 19:59	JH	TAL HOU
Total/NA	Prep	TX 1006 Frac			102185	03/22/13 12:17	NV	TAL HOU
Total/NA	Analysis	TX 1006		2	102450	03/22/13 14:34	RV	TAL HOU
Total/NA	Prep	3050B			101811	03/15/13 15:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	101898	03/18/13 17:40	DCL	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-27

Date Collected: 03/14/13 14:20

Matrix: Solid

Date Received: 03/15/13 08:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-6(0.5-1.1)

Lab Sample ID: 600-70064-28

Date Collected: 03/14/13 13:30

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101822	03/16/13 12:57	WS	TAL HOU
Total/NA	Prep	3550B			102162	03/21/13 09:40	ET	TAL HOU
Total/NA	Analysis	8270C LL		10	102319	03/21/13 20:26	JH	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			101862	03/18/13 10:05	NV	TAL HOU
Total/NA	Analysis	TX 1005		5	101954	03/19/13 08:52	RV	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Client Sample ID: 2013-STB-11(0.5-1.3)

Lab Sample ID: 600-70064-29

Date Collected: 03/14/13 14:20

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	101822	03/16/13 13:21	WS	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			101862	03/18/13 10:05	NV	TAL HOU
Total/NA	Analysis	TX 1005		5	101954	03/19/13 09:29	RV	TAL HOU
Total/NA	Analysis	Moisture		1	101755	03/15/13 10:21	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAm
THE LEADER IN ENVIRON

600-70064 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor Behling & Wheeler, LLC	Eric Pastor	3/14/13	225366
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr Suite 4004	(512) 671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664		
Project Name and Location (State)	**Carrier/Waybill Number**	
Exide - Fresco, TX		
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Lead	Cadmium	VOC	MS/MSD	Hold	Special Instructions/ Conditions of Receipt
2013 - TS-2 (0-0.5)	3/14/13	915				X	X						X	X	X				
2013 - TS-2 (0.5-2)		915				X	X						X	X	X			X	Hold
2013 - TS-2 (2-4)		915				X	X						X	X	X			X	Hold
2013 - TS-1 (0-0.5)		935				X	X						X	X	X		X		MS/MSD
2013 - TS-1 (0.5-2)		935				X	X						X	X	X			X	Hold
2013 - TS-1 (2-4)		935				X	X						X	X	X			X	Hold
2013 - FOP-1 (0-0.5)		1020				X	X						X	X	X				
2013 - FOP-1 (0.5-2)		1020				X	X						X	X	X			X	Hold
2013 - FOP-1 (2-4)		1020				X	X						X	X	X			X	Hold
2013 - FOP-1 (4-5)		1020				X	X						X	X	X			X	Hold
2013 - AD-1 (0-0.5)		1035				X	X						X	X	X			X	KRD
2013 - AD-1 (0.5-2)		1035				X	X						X	X	X			X	Hold

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1520	1. Received By	3/14/13	1520
2. Relinquished By	3/14/13	1730	2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	3-14-13	225368
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide – Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Lead	Cadmium	VOC	Special Instructions/ Conditions of Receipt
2013-AD-1 (2-4)		1035											X	X		Hold
2013-MB-1 (0-2)		1120											X	X		
2013-MB-1 (2-4)		1120											X	X		Hold
2013-MB-1 (4-5)		1120											X	X		Hold
2013-MB-2 (0-2)		1100											X	X		
2013-MB-2 (2-4)		1100											X	X		Hold
2013-MB-1 (4-5)		1120													X	
2013-MB-1 (0-2)		1120													X	
2013-MB-2 (0-2)		1100													X	
2013-STB-5 (0.5-1.5)		1315											X	X		
2013-STB-6 (0.5-1.1)		1330											X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	3-14-13	1520	1. Received By: M McCarver	3/14/13	1520
2. Relinquished By: M McCarver	3/14/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013
Page 59 of 61

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Eric Pastor	3/14/13	225370
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. Suite 4004	(512) 671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Lead	Cadmium	VOCs	TPH	ms/msd	Hold	Special Instructions/ Conditions of Receipt
Dup-7	3/14/13	-				X		X						X	X	X					
2013 - STB - 7 (0.5-1.2)		1400				X		X						X	X	X					
2013 - STB - 8 (0.8-1.3)		1410				X		X						X	X	X					
2013 - STB - 11 (0.5-1.3)		1420				X		X						X	X	X					
2013 - STB - 6 (0.5-1.1)		1330				X		X						X			X	X			
2013 - STB - 11 (0.5-1.3)		1420				X		X						X			X	X			

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

	Date	Time
1. Relinquished By: WMV	3-14-13	1520
2. Relinquished By: [signature]	3/14/13	1538
3. Relinquished By		
1. Received By: [signature]	3/14/13	1520
2. Received By		
3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-1

Login Number: 70064

List Source: TestAmerica Houston

List Number: 1

Creator: Trenery, Michael J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70064-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/24/2013 5:32:54 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70064

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/24/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-2
Reviewer Name: TWR	Prep Batch Number(s): 600-1004520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-2
Reviewer Name: TWR	Prep Batch Number(s): 600-1004520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-2
Reviewer Name: TWR	Prep Batch Number(s): 600-1004520- ICP

ER #[1]	DESCRIPTION
1	The lead MSand MSD recovery in sample 70064-12 was above acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	Due to the non-homogenous nature of the sample the RPD was above the acceptance limits for 70064-12 and 70064-12 MD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-70064-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70064-2

Comments
No additional comments.

Receipt
The samples were received on 3/15/2013 8:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-70064-12 DU), (600-70064-12 MS), (600-70064-12 MSD), 2013-AD-1(0.5-2) (600-70064-12), 2013-FOP-1 (0.5-2) (600-70064-8).

General Chemistry
Method(s) Moisture: The following samples were prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired : 2013-AD-1(0.5-2) (600-70064-12), 2013-FOP-1 (0.5-2) (600-70064-8).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70064-8	2013-FOP-1 (0.5-2)	Solid	03/14/13 10:20	03/15/13 08:38
600-70064-12	2013-AD-1(0.5-2)	Solid	03/14/13 10:35	03/15/13 08:38

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Client Sample ID: 2013-FOP-1 (0.5-2)

Lab Sample ID: 600-70064-8

Date Collected: 03/14/13 10:20
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 81.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	505		0.583	0.122	mg/Kg	☼	04/22/13 16:51	04/23/13 13:07	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	82	H	1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-AD-1(0.5-2)

Lab Sample ID: 600-70064-12

Date Collected: 03/14/13 10:35
Matrix: Solid
Date Received: 03/15/13 08:38
Percent Solids: 86.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	174		0.563	0.118	mg/Kg	☼	04/22/13 16:51	04/23/13 13:09	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	86	H	1.0	1.0	%			04/22/13 15:07	1

Qualifiers

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 13:02	1

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	66.92		mg/Kg		87.0	81.3 - 118.7		

Lab Sample ID: 600-70064-12 MS
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: 2013-AD-1(0.5-2)
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	174		55.3	270.6	N	mg/Kg	☼	175	75 - 125		

Lab Sample ID: 600-70064-12 MSD
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: 2013-AD-1(0.5-2)
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	174		57.5	287.0	N	mg/Kg	☼	197	75 - 125	6	20

Lab Sample ID: 600-70064-12 DU
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: 2013-AD-1(0.5-2)
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	174			294.0	F	mg/Kg	☼			51	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-8	2013-FOP-1 (0.5-2)	Total/NA	Solid	3050B	
600-70064-12	2013-AD-1(0.5-2)	Total/NA	Solid	3050B	
600-70064-12 DU	2013-AD-1(0.5-2)	Total/NA	Solid	3050B	
600-70064-12 MS	2013-AD-1(0.5-2)	Total/NA	Solid	3050B	
600-70064-12 MSD	2013-AD-1(0.5-2)	Total/NA	Solid	3050B	
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104520/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-8	2013-FOP-1 (0.5-2)	Total/NA	Solid	6010B	104520
600-70064-12	2013-AD-1(0.5-2)	Total/NA	Solid	6010B	104520
600-70064-12 DU	2013-AD-1(0.5-2)	Total/NA	Solid	6010B	104520
600-70064-12 MS	2013-AD-1(0.5-2)	Total/NA	Solid	6010B	104520
600-70064-12 MSD	2013-AD-1(0.5-2)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

General Chemistry

Analysis Batch: 104500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-8	2013-FOP-1 (0.5-2)	Total/NA	Solid	Moisture	
600-70064-12	2013-AD-1(0.5-2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Client Sample ID: 2013-FOP-1 (0.5-2)

Lab Sample ID: 600-70064-8

Date Collected: 03/14/13 10:20

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:07	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-AD-1(0.5-2)

Lab Sample ID: 600-70064-12

Date Collected: 03/14/13 10:35

Matrix: Solid

Date Received: 03/15/13 08:38

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAm
THE LEADER IN ENVIRON

600-70064 Chain of Custody

4/24/2013

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor Behling & Wheeler, LLC	Eric Pastor	3/14/13	225366
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr Suite 4004	(512) 671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Fresco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Lead	Cadmium	VOC	MS/MSD	Hold	Special Instructions/ Conditions of Receipt
2013 - TS-2 (0-0.5)	3/14/13	915				X	X						X	X	X				
2013 - TS-2 (0.5-2)		915				X	X						X	X	X			X	Hold
2013 - TS-2 (2-4)		915				X	X						X	X	X			X	Hold
2013 - TS-1 (0-0.5)		935				X	X						X	X	X		X		MS/MSD
2013 - TS-1 (0.5-2)		935				X	X						X	X	X			X	Hold
2013 - TS-1 (2-4)		935				X	X						X	X	X			X	Hold
2013 - FOP-1 (0-0.5)		1020				X	X						X	X	X				
2013 - FOP-1 (0.5-2)		1020				X	X						X	X	X			X	Hold
2013 - FOP-1 (2-4)		1020				X	X						X	X	X			X	Hold
2013 - FOP-1 (4-5)		1020				X	X						X	X	X			X	Hold
2013 - AD-1 (0-0.5)		1035				X	X						X	X	X			X	KRD
2013 - AD-1 (0.5-2)		1035				X	X						X	X	X			X	Hold

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1520	1. Received By	3/14/13	1520
2. Relinquished By	3/14/13	1730	2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	3-14-13	225368
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide – Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Lead	Cadmium	VOC	Special Instructions/ Conditions of Receipt
2013-AD-1 (2-4)		1035											X	X		Hold
2013-MB-1 (0-2)		1120											X	X		
2013-MB-1 (2-4)		1120											X	X		Hold
2013-MB-1 (4-5)		1120											X	X		Hold
2013-MB-2 (0-2)		1100											X	X		
2013-MB-2 (2-4)		1100											X	X		Hold
2013-MB-1 (4-5)		1120													X	
2013-MB-1 (0-2)		1120													X	
2013-MB-2 (0-2)		1100													X	
2013-STB-5 (0.5-1.5)		1315											X	X		
2013-STB-6 (0.5-1.1)		1330											X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will Vienne	3-14-13	1520	M McCarver	3/14/13	1520
2.	M McCarver	3/14/13	1730			
3.						

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4/24/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Eric Pastor	3/14/13	225370
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. Suite 4004	(512) 671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Lead	Cadmium	VOCs	TPH									ms/msd	Hold	Special Instructions/ Conditions of Receipt
Dup-7	3/14/13	-				X		X						X	X	X												
2013 - STB - 7 (0.5-1.2)		1400				X		X						X	X	X												
2013 - STB - 8 (0.8-1.3)		1410				X		X						X	X	X												
2013 - STB - 11 (0.5-1.3)		1420				X		X						X	X	X												
2013 - STB - 6 (0.5-1.1)		1330				X		X						X			X	X										
2013 - STB - 11 (0.5-1.3)		1420				X		X						X			X	X										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)
TRRP 13

	Date	Time		Date	Time
1. Relinquished By: WMV	3-14-13	1520	1. Received By: [signature]	3/14/13	1520
2. Relinquished By: [signature]	3/14/13	1530	2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-2

Login Number: 70064

List Source: TestAmerica Houston

List Number: 1

Creator: Trenery, Michael J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70064-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/29/2013 2:55:00 PM
Donnie Combs
Data Review Analyst I
donnie.combs@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70064

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/29/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104699- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104699- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/26/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70064-3
Reviewer Name: TWR	Prep Batch Number(s): 600-104699- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 70064-9 MS and MSD were below acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 70064-9 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
3	The lead RPD between samples 70064-9 and 70064-9 MD was above acceptance limits due to the non-homogenous nature of the samples.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-70064-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70064-3

Comments
No additional comments.

Receipt
The samples were received on 3/15/2013 8:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-70064-9 DU), (600-70064-9 MS), (600-70064-9 MSD), 2013-FOP-1 (2-4) (600-70064-9).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70064-9	2013-FOP-1 (2-4)	Solid	03/14/13 10:20	03/15/13 08:38

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Client Sample ID: 2013-FOP-1 (2-4)
Date Collected: 03/14/13 10:20
Date Received: 03/15/13 08:38

Lab Sample ID: 600-70064-9
Matrix: Solid
Percent Solids: 85.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	90.4		0.582	0.122	mg/Kg	☼	04/24/13 16:13	04/25/13 08:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14	H	1.0	1.0	%			04/25/13 12:51	1
Percent Solids	86	H	1.0	1.0	%			04/25/13 12:51	1

Qualifiers

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104699/1-A
Matrix: Solid
Analysis Batch: 104730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104699

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/24/13 16:13	04/25/13 08:18	1

Lab Sample ID: LCSSRM 600-104699/2-A
Matrix: Solid
Analysis Batch: 104730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104699

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	70.99		mg/Kg		92.3	81.3 - 118.7		

Lab Sample ID: 600-70064-9 MS
Matrix: Solid
Analysis Batch: 104730

Client Sample ID: 2013-FOP-1 (2-4)
Prep Type: Total/NA
Prep Batch: 104699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	90.4		53.9	80.97	N	mg/Kg	☼	-17	75 - 125		

Lab Sample ID: 600-70064-9 MSD
Matrix: Solid
Analysis Batch: 104730

Client Sample ID: 2013-FOP-1 (2-4)
Prep Type: Total/NA
Prep Batch: 104699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	90.4		56.0	166.4	N	mg/Kg	☼	136	75 - 125	69	20

Lab Sample ID: 600-70064-9 DU
Matrix: Solid
Analysis Batch: 104730

Client Sample ID: 2013-FOP-1 (2-4)
Prep Type: Total/NA
Prep Batch: 104699

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	90.4			26.32	F	mg/Kg	☼			110	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Metals

Prep Batch: 104699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-9	2013-FOP-1 (2-4)	Total/NA	Solid	3050B	
600-70064-9 DU	2013-FOP-1 (2-4)	Total/NA	Solid	3050B	
600-70064-9 MS	2013-FOP-1 (2-4)	Total/NA	Solid	3050B	
600-70064-9 MSD	2013-FOP-1 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-104699/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104699/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-9	2013-FOP-1 (2-4)	Total/NA	Solid	6010B	104699
600-70064-9 DU	2013-FOP-1 (2-4)	Total/NA	Solid	6010B	104699
600-70064-9 MS	2013-FOP-1 (2-4)	Total/NA	Solid	6010B	104699
600-70064-9 MSD	2013-FOP-1 (2-4)	Total/NA	Solid	6010B	104699
LCSSRM 600-104699/2-A	Lab Control Sample	Total/NA	Solid	6010B	104699
MB 600-104699/1-A	Method Blank	Total/NA	Solid	6010B	104699

General Chemistry

Analysis Batch: 104765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70064-9	2013-FOP-1 (2-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Client Sample ID: 2013-FOP-1 (2-4)
Date Collected: 03/14/13 10:20
Date Received: 03/15/13 08:38

Lab Sample ID: 600-70064-9
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104699	04/24/13 16:13	NER	TAL HOU
Total/NA	Analysis	6010B		1	104730	04/25/13 08:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70064-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAm
THE LEADER IN ENVIRON

600-70064 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor Behling & Wheeler, LLC	Eric Pastor	3/14/13	225366
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr Suite 4004	(512) 671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664		
Project Name and Location (State)	**Carrier/Waybill Number**	
Exide - Fresco, TX		
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Lead	Cadmium	VOC	MS/MSD	Hold	Special Instructions/ Conditions of Receipt
2013 - TS-2 (0-0.5)	3/14/13	915				X	X						X	X	X				
2013 - TS-2 (0.5-2)		915												X	X			X	Hold
2013 - TS-2 (2-4)		915												X	X			X	Hold
2013 - TS-1 (0-0.5)		935												X	X		X		MS/MSD
2013 - TS-1 (0.5-2)		935												X	X			X	Hold
2013 - TS-1 (2-4)		935												X	X			X	Hold
2013 - FOP-1 (0-0.5)		1020												X	X				
2013 - FOP-1 (0.5-2)		1020												X	X			X	Hold
2013 - FOP-1 (2-4)		1020												X	X			X	Hold
2013 - FOP-1 (4-5)		1020												X	X			X	Hold
2013 - AD-1 (0-0.5)		1035												X	X			X	KEEP
2013 - AD-1 (0.5-2)		1035												X	X			X	Hold

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify) TRRP 13

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1520	1. Received By	3/14/13	1520
2. Relinquished By	3/14/13	1730	2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4/29/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	3-14-13	225368
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide – Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Lead	Cadmium	VOC	Special Instructions/ Conditions of Receipt
2013-AD-1 (2-4)		1035											X	X		Hold
2013-MB-1 (0-2)		1120											X	X		
2013-MB-1 (2-4)		1120											X	X		Hold
2013-MB-1 (4-5)		1120											X	X		Hold
2013-MB-2 (0-2)		1100											X	X		
2013-MB-2 (2-4)		1100											X	X		Hold
2013-MB-1 (4-5)		1120													X	
2013-MB-1 (0-2)		1120													X	
2013-MB-2 (0-2)		1100													X	
2013-STB-5 (0.5-1.5)		1315											X	X		
2013-STB-6 (0.5-1.1)		1330											X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	3-14-13	1520	1. Received By: McCarver	3/14/13	1520
2. Relinquished By: McCarver	3/14/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Eric Pastor	3/14/13	225370
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. Suite 4004	(512) 671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Lead	Cadmium	VOCs	TPH									ms/msd	Hold	Special Instructions/ Conditions of Receipt
Dup-7	3/14/13	-				X		X						X	X	X												
2013 - STB - 7 (0.5-1.2)		1400				X		X						X	X	X												
2013 - STB - 8 (0.8-1.3)		1410				X		X						X	X	X												
2013 - STB - 11 (0.5-1.3)		1420				X		X						X	X	X												
2013 - STB - 6 (0.5-1.1)		1330				X		X						X			X	X										
2013 - STB - 11 (0.5-1.3)		1420				X		X						X			X	X										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify) TRRP 13

	Date	Time		Date	Time
1. Relinquished By	3-14-13	1520	1. Received By	3/14/13	1520
2. Relinquished By	3/14/13	1530	2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PINK - Field Copy

4/29/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70064-3

Login Number: 70064

List Source: TestAmerica Houston

List Number: 1

Creator: Trenery, Michael J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70675-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/6/2013 10:52:27 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 15
QC Association Summary 16
Lab Chronicle 17
Certification Summary 18
Chain of Custody 19
Receipt Checklists 20

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70675-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/08/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/06/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675
Reviewer Name: TWR	Prep Batch Number(s): 600-102835- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/06/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675
Reviewer Name: TWR	Prep Batch Number(s): 600-102835- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			4
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/06/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675
Reviewer Name: TWR	Prep Batch Number(s): 600-102835- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The lead SDLs were elevated in samples 70675-1 and 5 due to the dilutions required to bring this analyte to within linear range of the instrument.
4	Lead was detected above the MDL in the CCBs analyzed on 04/06/13 at 15:13 and 15:24. Since the concentrations were below the MQL, no corrective action was required.
5	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-70675-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70675-1

Comments
Inadvertently added documents for group 70673 instead of 70675.

Receipt
The samples were received on 3/28/2013 8:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.7º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2013-AD-2A (0.5-2) (600-70675-9), 2013-RRS-3A (0.8-2) (600-70675-6), Dup 8 (600-70675-5), MW-30 (0-0.5) (600-70675-1).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70675-1	MW-30 (0-0.5)	Solid	03/27/13 09:50	03/28/13 08:35
600-70675-5	Dup 8	Solid	03/27/13 00:00	03/28/13 08:35
600-70675-6	2013-RRS-3A (0.8-2)	Solid	03/27/13 10:15	03/28/13 08:35
600-70675-9	2013-AD-2A (0.5-2)	Solid	03/27/13 11:15	03/28/13 08:35

Client Sample ID: MW-30 (0-0.5)

Lab Sample ID: 600-70675-1
Date Collected: 03/27/13 09:50
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 91.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	62.7		0.253	0.0259	mg/Kg	☼	03/29/13 11:30	03/29/13 14:58	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20300		10.1	2.12	mg/Kg	☼	03/29/13 11:30	03/29/13 15:57	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	92		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: Dup 8

Lab Sample ID: 600-70675-5
Date Collected: 03/27/13 00:00
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 83.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	32.0		0.278	0.0285	mg/Kg	☼	03/29/13 11:30	03/29/13 15:01	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19200		11.1	2.33	mg/Kg	☼	03/29/13 11:30	03/29/13 15:59	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	83		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: 2013-RRS-3A (0.8-2)

Lab Sample ID: 600-70675-6
Date Collected: 03/27/13 10:15
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 78.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	13.0		0.299	0.0307	mg/Kg	☼	03/29/13 11:30	03/29/13 15:03	1
Lead	2610		0.598	0.125	mg/Kg	☼	03/29/13 11:30	03/29/13 15:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	78		1.0	1.0	%			03/28/13 15:44	1

Client Sample ID: 2013-AD-2A (0.5-2)

Lab Sample ID: 600-70675-9
Date Collected: 03/27/13 11:15
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 80.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.296	J	0.302	0.0310	mg/Kg	☼	03/29/13 11:30	03/29/13 15:06	1
Lead	175		0.604	0.127	mg/Kg	☼	03/29/13 11:30	03/29/13 15:06	1

Client Sample Results

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Client Sample ID: 2013-AD-2A (0.5-2)
Date Collected: 03/27/13 11:15
Date Received: 03/28/13 08:35

Lab Sample ID: 600-70675-9
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/28/13 15:44	1
Percent Solids	80		1.0	1.0	%			03/28/13 15:44	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-102835/1-A
Matrix: Solid
Analysis Batch: 102868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102835

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/29/13 11:30	03/29/13 14:44	1
Lead	0.105	U	0.500	0.105	mg/Kg		03/29/13 11:30	03/29/13 14:44	1

Lab Sample ID: LCSSRM 600-102835/2-A
Matrix: Solid
Analysis Batch: 102868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102835

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	92.38		mg/Kg		89.7	83.6 - 115.5
Lead	76.9	72.62		mg/Kg		94.4	81.3 - 118.7

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 102835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-1	MW-30 (0-0.5)	Total/NA	Solid	3050B	
600-70675-1 - DL	MW-30 (0-0.5)	Total/NA	Solid	3050B	
600-70675-5	Dup 8	Total/NA	Solid	3050B	
600-70675-5 - DL	Dup 8	Total/NA	Solid	3050B	
600-70675-6	2013-RRS-3A (0.8-2)	Total/NA	Solid	3050B	
600-70675-9	2013-AD-2A (0.5-2)	Total/NA	Solid	3050B	
LCSSRM 600-102835/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-102835/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 102868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-1	MW-30 (0-0.5)	Total/NA	Solid	6010B	102835
600-70675-1 - DL	MW-30 (0-0.5)	Total/NA	Solid	6010B	102835
600-70675-5	Dup 8	Total/NA	Solid	6010B	102835
600-70675-5 - DL	Dup 8	Total/NA	Solid	6010B	102835
600-70675-6	2013-RRS-3A (0.8-2)	Total/NA	Solid	6010B	102835
600-70675-9	2013-AD-2A (0.5-2)	Total/NA	Solid	6010B	102835
LCSSRM 600-102835/2-A	Lab Control Sample	Total/NA	Solid	6010B	102835
MB 600-102835/1-A	Method Blank	Total/NA	Solid	6010B	102835

General Chemistry

Analysis Batch: 102778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-1	MW-30 (0-0.5)	Total/NA	Solid	Moisture	
600-70675-5	Dup 8	Total/NA	Solid	Moisture	
600-70675-6	2013-RRS-3A (0.8-2)	Total/NA	Solid	Moisture	
600-70675-9	2013-AD-2A (0.5-2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Client Sample ID: MW-30 (0-0.5)

Lab Sample ID: 600-70675-1

Date Collected: 03/27/13 09:50
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B		1	102868	03/29/13 14:58	DCL	TAL HOU
Total/NA	Prep	3050B	DL		102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B	DL	20	102868	03/29/13 15:57	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: Dup 8

Lab Sample ID: 600-70675-5

Date Collected: 03/27/13 00:00
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B		1	102868	03/29/13 15:01	DCL	TAL HOU
Total/NA	Prep	3050B	DL		102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B	DL	20	102868	03/29/13 15:59	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: 2013-RRS-3A (0.8-2)

Lab Sample ID: 600-70675-6

Date Collected: 03/27/13 10:15
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B		1	102868	03/29/13 15:03	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Client Sample ID: 2013-AD-2A (0.5-2)

Lab Sample ID: 600-70675-9

Date Collected: 03/27/13 11:15
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102835	03/29/13 11:30	DCL	TAL HOU
Total/NA	Analysis	6010B		1	102868	03/29/13 15:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102778	03/28/13 15:44	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAm
THE LEADER IN ENVIRO

600-70675 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vrenna	3/27/13	225399
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2201 Double Creek Dr. #4004	(512)671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eblde Frisco Recyling Center			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TR	Pb, Cd	Special Instructions/ Conditions of Receipt
MW-30 (0-0.5)	3/27/13	0950				X							1	X	
MW-30 (0.5-2)	↓	0951				↓							↓	↓	Hold
MW-30 (2-4)		0952													Hold
MW-30 (4-5)		0953													Hold
Dup 8		—													
2013-RRS-3A (0.8-2)		1015													
2013-RRS-3A (2-4)		1016													Hold
2013-RRS-3A (4-5)		1017													Hold
2013-AD-2A (0.5-2)		1115													
2013-AD-2A (2-4)		1116													Hold
2013-AD-2A (4-5)	↓	1117				↓							↓	↓	Hold

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/27/13	1520	1. Received By	3/27/13	1520
2. Relinquished By	3/27/13	1730	2. Received By		
3. Relinquished By			3. Received By	03/28/13	0835

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70675-1

Login Number: 70675

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70675-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/25/2013 12:01:37 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 19

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70675

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/25/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70675-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-70675-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70675-2

Receipt
The samples were received on 3/28/2013 8:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2013-RRS-3A (2-4) (600-70675-7), MW-30 (0.5-2) (600-70675-2).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70675-2	MW-30 (0.5-2)	Solid	03/27/13 09:51	03/28/13 08:35
600-70675-7	2013-RRS-3A (2-4)	Solid	03/27/13 10:16	03/28/13 08:35

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Client Sample ID: MW-30 (0.5-2)

Lab Sample ID: 600-70675-2

Date Collected: 03/27/13 09:51
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 79.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	128		0.593	0.124	mg/Kg	☼	04/22/13 16:51	04/23/13 13:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			04/22/13 15:07	1
Percent Solids	80		1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-RRS-3A (2-4)

Lab Sample ID: 600-70675-7

Date Collected: 03/27/13 10:16
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 76.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	84.2		0.600	0.126	mg/Kg	☼	04/22/13 16:51	04/23/13 13:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			04/22/13 15:07	1
Percent Solids	76		1.0	1.0	%			04/22/13 15:07	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 13:02	1

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	66.92		mg/Kg		87.0	81.3 - 118.7

Method: Moisture - Percent Moisture

Lab Sample ID: 600-70675-7 DU
Matrix: Solid
Analysis Batch: 104500

Client Sample ID: 2013-RRS-3A (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24		21		%		10	20
Percent Solids	76		79		%		3	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Metals

Prep Batch: 104520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-2	MW-30 (0.5-2)	Total/NA	Solid	3050B	
600-70675-7	2013-RRS-3A (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104520/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-2	MW-30 (0.5-2)	Total/NA	Solid	6010B	104520
600-70675-7	2013-RRS-3A (2-4)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

General Chemistry

Analysis Batch: 104500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70675-2	MW-30 (0.5-2)	Total/NA	Solid	Moisture	
600-70675-7	2013-RRS-3A (2-4)	Total/NA	Solid	Moisture	
600-70675-7 DU	2013-RRS-3A (2-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Client Sample ID: MW-30 (0.5-2)

Lab Sample ID: 600-70675-2

Date Collected: 03/27/13 09:51
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:18	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-RRS-3A (2-4)

Lab Sample ID: 600-70675-7

Date Collected: 03/27/13 10:16
Matrix: Solid
Date Received: 03/28/13 08:35
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70675-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAm
THE LEADER IN ENVIRO

600-70675 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vrenna	3/27/13	225399
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2201 Double Creek Dr. #4004	(512)671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eyde Frisco Recycling Center			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Tot	Pb, Cd	Special Instructions/ Conditions of Receipt
MW-30 (0-0.5)	3/27/13	0950				X							1	X	
MW-30 (0.5-2)		0951													Hold
MW-30 (2-4)		0952													Hold
MW-30 (4-5)		0953													Hold
Dup 8		—													
2013-RRS-3A (0.8-2)		1015													
2013-RRS-3A (2-4)		1016													Hold
2013-RRS-3A (4-5)		1017													Hold
2013-AD-2A (0.5-2)		1115													
2013-AD-2A (2-4)		1116													Hold
2013-AD-2A (4-5)		1117													Hold

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/27/13	1520	1. Received By	3/27/13	1520
2. Relinquished By	3/27/13	1730	2. Received By		
3. Relinquished By			3. Received By	03/28/13	0835

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4/25/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70675-2

Login Number: 70675

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1203765-31	D-11	Solid	03/28/12 07:49	03/28/12 13:39
1203765-32	D-12	Solid	03/28/12 07:55	03/28/12 13:39
1203765-33	D-13	Solid	03/28/12 08:05	03/28/12 13:39
1203765-34	D-14	Solid	03/28/12 08:23	03/28/12 13:39
1203765-35	D-15	Solid	03/28/12 08:30	03/28/12 13:39
1203765-36	E-11	Solid	03/28/12 08:48	03/28/12 13:39
1203765-37	E-12	Solid	03/28/12 08:51	03/28/12 13:39
1203765-38	E-13	Solid	03/28/12 09:23	03/28/12 13:39
1203765-39	E-14	Solid	03/28/12 09:27	03/28/12 13:39
1203765-40	E-15	Solid	03/28/12 09:32	03/28/12 13:39

Case Narrative

This additional report was prepared at the request of the client to only include samples 1203765-31 thru -40. All samples submitted originally under Pace Work Order 1203765 were reported in their entirety on the report with a Print Date/Time 03/30/12 at 12:47. This report revision is in addition to the prior report and is not intended as a replacement.

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-31
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore — Customer
Sample Description: D-11
Sample Date/Time: 03/28/12 0749

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**74**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.51	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**3.62**	1.01	0.221	mg/kg dry	10.10	M4	2C29017	03/29/12 2003	SPS	R-01
Lead	**524**	1.91	0.42	mg/kg dry	10.10	M4	2C29017	03/29/12 2003	SPS	Q-21, R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-32
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: D-12
Sample Date/Time: 03/28/12 0755

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**72**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	47.62	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**3.71**	0.98	0.221	mg/kg dry	9.52	M4	2C29017	03/29/12 2102	SPS	R-01
Lead	**522**	1.85	0.42	mg/kg dry	9.52	M4	2C29017	03/29/12 2102	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-33
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: D-13
Sample Date/Time: 03/28/12 0805

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**76**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.51	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**2.98**	0.98	0.221	mg/kg dry	10.10	M4	2C29017	03/29/12 2109	SPS	R-01
Lead	**434**	1.86	0.42	mg/kg dry	10.10	M4	2C29017	03/29/12 2109	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-34
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: D-14
Sample Date/Time: 03/28/12 0823

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**76**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	49.50	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**1.44**	0.97	0.221	mg/kg dry	9.90	M4	2C29017	03/29/12 2116	SPS	J, R-01
Lead	**204**	1.83	0.42	mg/kg dry	9.90	M4	2C29017	03/29/12 2116	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-35
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: D-15
Sample Date/Time: 03/28/12 0830

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**78**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	52.08	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**1.61**	0.99	0.221	mg/kg dry	10.42	M4	2C29017	03/29/12 2124	SPS	J, R-01
Lead	**245**	1.88	0.42	mg/kg dry	10.42	M4	2C29017	03/29/12 2124	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-36
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: E-11
Sample Date/Time: 03/28/12 0848

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**73**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	48.08	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**17.8**	0.98	0.221	mg/kg dry	9.62	M4	2C29017	03/29/12 2131	SPS	R-01
Lead	**2920**	1.85	0.42	mg/kg dry	9.62	M4	2C29017	03/29/12 2131	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-37
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: E-12
Sample Date/Time: 03/28/12 0851

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**72**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	50.51	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**18.3**	1.04	0.221	mg/kg dry	10.10	M4	2C29017	03/29/12 2138	SPS	R-01
Lead	**2610**	1.96	0.42	mg/kg dry	10.10	M4	2C29017	03/29/12 2138	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-38
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: E-13
Sample Date/Time: 03/28/12 0923

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**72**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	49.02	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**10.1**	1.00	0.221	mg/kg dry	9.80	M4	2C29017	03/29/12 2145	SPS	R-01
Lead	**1850**	1.89	0.42	mg/kg dry	9.80	M4	2C29017	03/29/12 2145	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-39
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: E-14
Sample Date/Time: 03/28/12 0927

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**70**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	51.02	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**5.64**	1.08	0.221	mg/kg dry	10.20	M4	2C29017	03/29/12 2152	SPS	R-01
Lead	**1090**	2.05	0.42	mg/kg dry	10.20	M4	2C29017	03/29/12 2152	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Laboratory ID #: 1203765-40
Sample Type: Grab
Matrix: Solid
Sample Collected By: Chris Moore
Customer
Sample Description: E-15
Sample Date/Time: 03/28/12 0932

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM 2540G										
% Solids	**69**	0.040	0.2	%	1.00	W3	2C29030	03/29/12 1522	BLF	
Metals (Total), EPA 3050B										
Acid Digestion of Sludges/Solids	**Completed**	N/A	N/A	-	47.62	DB2	2C29017	03/29/12 1040	RLC	
Metals (Total), EPA 6010B										
Cadmium	**4.34**	1.02	0.221	mg/kg dry	9.52	M4	2C29017	03/29/12 2304	SPS	R-01
Lead	**893**	1.93	0.42	mg/kg dry	9.52	M4	2C29017	03/29/12 2304	SPS	R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29030-BLK1)										
Prepared & Analyzed: 03/29/12 15:22										
% Solids	**ND**	0.040	%							
Duplicate (2C29030-DUP1)										
Prepared & Analyzed: 03/29/12 15:22					**Source: 1203765-21**					
% Solids	**76**	0.040	%		76			0.1	7	
Duplicate (2C29030-DUP2)										
Prepared & Analyzed: 03/29/12 15:22					**Source: 1203765-32**					
% Solids	**70**	0.040	%		72			3	7	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29017-BLK1) Prepared & Analyzed: 03/29/12 10:40										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-							
Cadmium	**ND**	0.07	mg/kg wet							
Lead	**ND**	0.14	mg/kg wet							
Laboratory Control Sample (2C29017-BS1) Prepared & Analyzed: 03/29/12 10:40										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0			
Cadmium	**25.4**	0.07	mg/kg wet	25.0		102	80-120			
Lead	**25.0**	0.14	mg/kg wet	25.0		100	80-120			
Laboratory Control Sample Duplicate (2C29017-BSD1) Prepared & Analyzed: 03/29/12 10:40										
Acid Digestion of Sludges/Solids	**Completed**	N/A	-				0-0		0	
Cadmium	**24.6**	0.07	mg/kg wet	25.0		98	80-120	3	20	
Lead	**24.0**	0.14	mg/kg wet	25.0		96	80-120	4	20	
Matrix Spike (2C29017-MS1) Prepared & Analyzed: 03/29/12 10:40					**Source: 1203765-31**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0			
Cadmium	**37.0**	1.05	mg/kg dry	35.6	3.62	94	75-125			R-01
Lead	**561**	1.99	mg/kg dry	35.6	524	103	75-125			R-01
Matrix Spike (2C29017-MS2) Prepared & Analyzed: 03/29/12 10:40					**Source: 1203765-21**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0			
Cadmium	**35.9**	0.98	mg/kg dry	33.0	3.61	98	75-125			R-01
Lead	**592**	1.85	mg/kg dry	33.0	566	77	75-125			R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C29017-MSD1) Prepared & Analyzed: 03/29/12 10:40					**Source: 1203765-31**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0		0	
Cadmium	**33.7**	0.96	mg/kg dry	32.5	3.62	93	75-125	9	20	R-01
Lead	**540**	1.82	mg/kg dry	32.5	524	48	75-125	4	20	Q-02, R-01
Matrix Spike Duplicate (2C29017-MSD2) Prepared & Analyzed: 03/29/12 10:40					**Source: 1203765-21**					
Acid Digestion of Sludges/Solids	**Completed**	N/A	-		ND		0-0		0	
Cadmium	**33.6**	0.96	mg/kg dry	32.3	3.61	93	75-125	7	20	R-01
Lead	**608**	1.81	mg/kg dry	32.3	566	129	75-125	3	20	Q-02, R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Pastor, Behling and Wheeler LLC.
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
ATTN: Christopher Moore

Project: Exide SS
Project #: 1775
Print Date/Time: 04/01/13 09:04

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

Laboratory Data Package Cover Page

This data package for Laboratory Job Number 1203765 consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ **R1** Field chain-of-custody documentation;
- ☑ **R2** Sample identification cross-reference;
- ☑ **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ **R4** Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ **R5** Test reports/summary forms for blank samples;
- ☑ **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☑ **R10** Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Shelly Connelly	Shelly Connelly	Client Services Manager	03/30/12
Name (Printed)	Signature	Official Title (Printed)	Date

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	LRC Date:	**03/30/12**
Project Name:	**Exide SS**	Laboratory Job Number:	**1203765**
Reviewer Name:	**Melissa McCullough**	Prep Batch Number(s):	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		If required for the project, TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			E001
		Were MS/MSD RPDs within laboratory QC limits?		X			E002
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PACE Analytical Services, Inc.

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/30/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203765**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	**O**	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	**O**	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	**OI**	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**03/30/12**
Project Name:	**Exide SS**	**Laboratory Job**	**1203765**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2C28079,2C29016,2C29017,2C29020,2C29030,2C29031**

ER# [1]	Description
E001	Matrix Spike Recovery for Lead (45%) was outside acceptance limits (75-125) in 2C28079-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (71%) was outside acceptance limits (75-125) in 2C28079-MSD2 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-11) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Cadmium (46%) was outside acceptance limits (75-125) in 2C29016-MS1 for Cd Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (-30%) was outside acceptance limits (75-125) in 2C29016-MS1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Cadmium (64%) was outside acceptance limits (75-125) in 2C29016-MSD1 for Cd Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (1060%) was outside acceptance limits (75-125) in 2C29016-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (48%) was outside acceptance limits (75-125) in 2C29017-MSD1 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the source (1203765-31) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Lead (129%) was outside acceptance limits (75-125) in 2C29017-MSD2 for Pb Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a high bias to the source (1203765-21) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range.
E002	Matrix Spike Duplicate RPD for Cadmium (36%) was above the acceptance limit (20) in 2C29016-MSD1 for Cd Total ICP 6010B - The RPD of this analyte between the MS(s) was outside of the acceptable range. The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for Lead (143%) was above the acceptance limit (20) in 2C29016-MSD1 for Pb Total ICP 6010B - The RPD of this analyte between the MS(s) was outside of the acceptable range. The RPD of this same analyte between the LCS(s) was within the acceptable range.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

SITE:	Exide Former Operating Plant Frisco, Texas	
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW) Round Rock, Texas	
EVENT:	APAR Soil Sampling – March 2012 and March 2013	
INTENDED USE:	Affected Property Assessment Report (APAR)	
LABORATORIES:	March 2012 Sampling (metals only) Pace Analytical Services, Inc. – Allen, TX TLAP Certification T104704232 Work Order: 1203765	
	March 2013 Sampling (metals, sulfate/pH and organics) TestAmerica – Houston, TX TLAP Certification T104704223 Work Orders: 600-69484-1, 600-69484-2, 600-69563-1, 600-69563-2, 600-69563-3, 600-69563-4, 600-69642-1, 600-69642-2, 600-69642-3, 600-70120-1, and 600-70120-2	
TESTS/ METHODS:	Total Metals (As, Cd, Pb, and/or Se)	SW846 3050B/6010B
	Sulfate (SO4)	SW846 9056
	pH	SW846 9045C
	Total Petroleum Hydrocarbons (TPH)	TX 1005 (4 C-ranges)
	Semivolatile Organic Compounds (SVOC)	SW846 3550B/8270C LL (67 analytes)
SAMPLES:	84 soil samples, 5 field duplicates, 1 field MS/MSD pair, 11 laboratory MS/MSD pairs (see Table 1 for a complete listing)	

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS).

QAA completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field QC Blanks
- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory and Field Duplicate Precision

Additionally, QAA used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)
- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for the data usability review are as follows:

- Inorganics: 70-130% spike recovery (and not less than 30% or data is rejected) and ±MQL difference or 30% RPD (for laboratory duplicates) as recommended in TRRP-13
- Organics: 60-140% spike recovery (and not less than 10% or data is rejected) and ±MQL difference or 40% RPD (for laboratory duplicates) as recommended in TRRP-13
- Soil Samples: ± 3x MQL difference (if either result is less than 5x MQL) or 50% RPD (for field duplicates) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier (DQ) and bias code to the results for the affected samples in accordance with TRRP-13. A list of all qualified results and definitions of the qualifier and bias codes are given in Table 2.

GLOSSARY OF TERMS

The following definitions apply for terms related to analyte reporting limits:

MDL (Method Detection Limit) – the minimum concentration of an analyte that the laboratory can measure and report with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by the laboratory for each analyte in a given reagent matrix (water or soil) generally using the procedures specified in 40 CFR Part 136, Appendix B. It is a measure of the concentration an instrument can detect or 'see' in a given reagent matrix. TRRP-13 requires that the laboratory routinely check the MDL for reasonableness.

SDL (Sample Detection Limit) – the MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and taking into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can detect or 'see' in a given sample. For TRRP, non-detects are reported using the SDL. This term was originally called the SQL (Sample Quantitation Limit) before the TRRP rule revisions effective March 19, 2007.

Unadjusted MQL (Method Quantitation Limit) – the lowest non-zero concentration standard in the laboratory's initial calibration curve calculated using the normal aliquot sizes and final volumes prescribed in the analytical method. The unadjusted MQL is reported by the laboratory for each analyte in a given matrix (water or soil). It is a measure of the concentration an instrument can accurately measure in a typical sample. Per TRRP, the Unadjusted MQLs should be below the Levels of Required Performance (LORPs) for purposes of assessment as well as demonstration of conformance with critical Protective Concentration Levels (PCLs).

MQL – the unadjusted MQL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and takes into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can accurately measure in a given sample. Analytes with concentrations above the SDL but below the MQL, though present in the sample, may not be accurately measured and are thus flagged as estimated (J).

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratories were NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody form. A copy of the applicable pages of the laboratories' National Environmental Laboratory Accreditation Program (NELAP) certificates valid during the period in which each laboratory generated the data in this report is included in Attachment 1 to this DUS.

USABILITY SUMMARY

1. Usability of Unqualified Non-Detects – Non-detects are reported at the sample detection limit (SDL) as required per TRRP. Additionally, according to the LRC, an MDL study was performed for each analyte and the MDLs were checked for reasonableness. The levels of required performance (LORPs) have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1 or Tier 2 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. As needed per TRRP, the Unadjusted MQL stated by each laboratory is at or below the LORP for each applicable analyte, and thus the analytical methods are appropriate and the results can be used to demonstrate conformance with the criteria, except for two of the 67 SVOC analytes. These analytes (Benzidine and N-Nitrosodimethylamine) have particularly low LORPs. The laboratory MQLs are considered the lowest attainable using standard methodology (SW-846 8270C LL) without special analytical techniques and are considered adequate for this phase of the site investigation.

2. Usability of Qualified Data – As shown in Table 2, the non-detect results for Benzidine and 3,3'-Dichlorobenzidine for sample MW-27 (0-1) are qualified as rejected (R) due to extremely low LCS recovery (0%). The absence or presence of these analytes cannot be determined and thus the data is rejected. Other results (all detects for Cadmium or Lead) are qualified as estimated (J) or biased high (JH) due to minor QC deficiencies. Detects that are biased high can be used; however, the reported concentration may be high. Results that are estimated may be either high or low. Additionally, results with a laboratory J-flag (i.e., at a concentration between the SDL and MQL) should be considered estimates. The actual value is not expected to exceed the sample MQL.

QAA Reviewer:	Taryn G. Scholz	6/21/13
	(Name)	(Date)

QC PARAMETER	QC OUTCOME
Data Completeness	The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the TestAmerica EDD contains all sample results in acceptable format. (An EDD was not submitted with the Pace data.) Revisions were required for Pace work order 1203765 and TestAmerica work orders 600-69484-1, 600-69563-1, 600-69642-1, and 600-70120-1. All revisions are detailed in the laboratory narratives. (Note: For Pace work order 1203765, the data package was revised to include reporting of Total Cadmium and Total Lead for a subset of the samples on the custody record (only those that will be used for the APAR). The LRC included with the revised report covers the complete set of samples, and thus some of the exception reports in the LRC do not apply for the subset of samples.)
Chain-of-Custody	Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. Additionally, the information on the custody records is complete and agrees with that in the field notes and laboratory reports, except as follows: • The sampler did not enter a collection time on the custody record for TestAmerica samples 600-69484-4 thru 600-69484-46, which were analyzed for metals and sulfate, or for TestAmerica samples 600-69642-1 thru 600-69642-18, which were analyzed for metals only. The date of collection is available on the custody record and the samples were not analyzed for any test with a holding time of less than one-day (i.e., requiring a collection time to complete the holding time check). • For TestAmerica work order 600-69563, the time of receipt is shown as 9:35 on the custody record and as 10:12 on the laboratory report. These are considered minor issues and thus no further action was taken. The reviewer also confirmed that all tests are reported as requested on the custody record and found the following changes: • Several TestAmerica samples are marked “Hold” on the custody record pending results for the first depth interval from that location. Twelve (12) samples were released for Total Cadmium and/or Total Lead analysis (which may not include all the tests requested on the custody record) per PBW’s request. Results are reported in work orders 600-69484-2, 600-69563-2, 600-69563-3, 600-69563-4, 600-69642-2, 600-69642-3, and 600-70120-2. • Total Arsenic was added for eight TestAmerica samples (2013-AD-2 (0-0.5), 2013-CUFT-7 (0-0.5), E-11A (0-0.5), ECO-11 (0-0.5), ECO-12 (0-0.5), MW-21 (0-0.5), MW-22 (0-0.5), and SDA-4A (0.0-0.5)). Total Cadmium was added for two TestAmerica samples (E-11 (2-4) and E-11 (4-5)). Total Arsenic (As) and Total Selenium (Se) were added for three TestAmerica samples (2012-FWCS-1A (1-2), MW-23 (0-0.5) and SCC-3 (2-4)) per PBW’s request. • Semivolatile organics (SVOC) are reported instead of Polynuclear Aromatic Hydrocarbons (PAH) for TestAmerica sample 600-69563-29 per PBW’s request.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation, except as follows:

QC PARAMETER	QC OUTCOME

Sample Condition

- The analytical method used by TestAmerica for pH measurement (i.e., SW846 9045C) states that the samples should be analyzed as soon as possible, which has been clarified by EPA as 15-minutes per the laboratory narrative. This is only possible if the measurement is made in the field. Each of the three soil pH samples was analyzed upon receipt at the laboratory with measurement of pH immediately after sample preparation. Thus, the reviewer determined that data qualification is not necessary.

Note that the laboratory narrative and flags indicate the holding time for the moisture results was exceeded for four samples. The procedure for percent moisture determination is based on Section 11.2 of SW-846 Method 3550, which does not include a holding time requirement. The laboratory has established a reasonable holding time of 28-days. The %moisture test, which is used for dry-weight correction, was performed outside this holding time for four samples at depth intervals that were released for analysis more than 28-days after collection. The holding times for the analytes (metals) that are reported for these samples were not exceeded and thus no data qualifiers were applied. The reviewer also noted that the %moisture was determined at the time of metals analysis, which provides the best value for dry-weight correction.

Field Procedures

The soil borings were advanced using direct push technology or a hand auger. All samples were collected and placed immediately into sterilized jars provided by the laboratory and then into a cooler with ice. (Note that TPH samples were collected using a bulk sampling technique into completely filled containers with lined lids and were frozen upon receipt at the laboratory until preparation and analysis.)

No field QC samples were collected with the March 2012 samples. For the March 2013 samples, five field duplicates were collected and analyzed with the 84 investigative samples that were analyzed for one or more tests.

Results Reporting Procedures

The Pace hardcopy analytical results include a Result, MQL (unadjusted), and SDL. Pace did not submit an EDD. The TestAmerica hardcopy analytical results include a Result, MQL (adjusted), and SDL. The TestAmerica EDD includes the MDL, SDL (under the SQL column per previously used terminology) and the MQL, which is not adjusted for sample specific factors.

Results are reported in SU for pH and in mg/kg with dry-weight correction for the remaining analytes. Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

Each of the sulfate samples and some of the metals samples required dilution due to a high concentration of analyte; however, there are no elevated reporting limits for non-detects.

MQLs

The LORPs have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1 or Tier 2 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. The Unadjusted MQLs for both laboratories are at or below the LORPs for each applicable analyte, except as follows:

Analyte	LORP	Laboratory MQL	Laboratory MDL
Benzidine	0.001 mg/kg	0.0833 mg/kg	0.00902 mg/kg
N-Nitrosodimethylamine	0.002 mg/kg	0.0167 mg/kg	0.00419 mg/kg

QC PARAMETER — QC OUTCOME

MQLs — The laboratory MQLs are considered the lowest attainable using standard methodology (SW-846 8270C LL) without special analytical techniques and are considered adequate for this phase of the site investigation.

MDLs — According to the LRC, an MDL study was performed for each analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of detectability check standards (DCS) as required per TRRP-13. Results for the DCS are included in the laboratory data packages.

Laboratory Blanks — No analytes are reported above the detection limit in the laboratory blanks, which confirms that no contamination was introduced in the laboratory, except as follows:

Lab	Blank Type	QC Batch	Analyte	Blank Concentration
TestAmerica	Method	101040	Lead	0.1365 J mg/kg
TestAmerica	Method	101055	Lead	0.1560 J mg/kg
TestAmerica	Method	101117	Lead	0.1550 J mg/kg
TestAmerica	Method	101117	Lead	0.1750 J mg/kg
TestAmerica	Method	102067	Lead	0.1930 J mg/kg

Results for samples prepared in the same QC batch as a contaminated method blank may be biased high due to laboratory contamination. However, none of the samples associated with the above blanks have a concentration similar to the blank (i.e., within five times that measured in the blank), and thus no data qualification is required.

Field QC Blanks — No field QC blanks were collected with the samples.

Laboratory Control Spike Recovery — The laboratories prepared one laboratory control spike (LCS) for each analytical batch and the spike solution contained all of the analytes except >C28-C35 TPH. Additionally, Pace prepared a duplicate LCS (i.e., a LCSD) for each analytical batch. The LCS/LCSD recoveries are within the TRRP recommended limits, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

Lab	Test	QC Batch	Analyte	LCS %R
TestAmerica	SVOC	100975	Benzidine	0
TestAmerica	SVOC	100975	3,3'-Dichlorobenzidine	0
TestAmerica	SVOC	100975	3-Nitroaniline	145

For 3-Nitroaniline, the recovery is above the limit indicating a potential high bias for detected results. The analyte was not detected in the associated samples (i.e., those prepared in the same batch) and thus no data qualification is required.

For Benzidine and 3,3'-Dichlorobenzidine, the recovery is extremely low (i.e., below the data rejection limit of 10% for organics). Neither analyte was detected in the one sample analyzed in QC batch 100975 (MW-27 (0-1)). It is not possible to determine the absence or presence of these analytes and thus the reviewer qualified these results as rejected (R).

QC PARAMETER | QC OUTCOME

Matrix Spike Recovery

The laboratories prepared at least one Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for each analytical batch and the spike solution contained all of the analytes except >C28-C35 TPH. Additionally, the laboratories prepared one Post Digestion Spike (PDS) with each metals analytical batch. Recoveries are reported for MS/MSD prepared using a sample from the site. PDS outcomes are given on the LRC but PDS data are not reportable data per TRRP-13. In order to better evaluate data quality, the reviewer requested PDS data from TestAmerica for laboratory work orders 600-69484-1, 600-69563-1, and 600-70120-1 and it was provided as package addenda (see Attachment 2).

As shown in Table 1, several MS/MSD pairs were prepared for metals using an APAR sample from the site. The recoveries are within the TRRP recommended criteria for Arsenic, Cadmium, and Selenium, which indicates good accuracy for the preparation and analysis technique on the given sample matrix. The recoveries for Lead are shown below:

Lab	MS/MSD ID	QC Batch	Parent Amount	Spike Amount	MS R%	MSD R%	PDS R%
TestAmerica	MW-24 (0-0.5)	101055	8.82	60	79	77	77
TestAmerica	2013-CUFT-3 (0-0.5)	100979	25.4	64.4	105	107	NA
TestAmerica	2013-RO-3 (0-0.5)	101869	26.1	58.7	161	152	NA
TestAmerica	SDA-4A (0.5-2)	101117	69.6	64.2	149	202	90
TestAmerica	2013-STB-10 (0.5-1.1)	101869	137	56.6	188	87	93
TestAmerica	SCC-3A (0-0.5)	101040	140	57.4	18	20	NA
TestAmerica	2013-MW10-1 (0-0.5)	101040	202	56.4	-104	-33	72
TestAmerica	SCC-11A (0-0.5)	101117	268	61.4	181	235	NA
Pace	D-11	2C29017	524	35.6	103	48	NA
TestAmerica	SCC-3 (2-4)	101358	1300	54.1	-360	748	NA

(MS/MSD are listed in order of increasing Lead concentration in the unspiked parent sample. Recoveries highlighted in red are outside the 70-130% data quality criteria.)

For the first three MS/MSD listed, the spiking level was adequate (i.e., the amount of spike added is at or above the amount in the unspiked parent sample). Two of these MS/MSD (2013-CUFT-3 (0-0.5) and MW-24 (0-0.5)) have recoveries that are within the criteria, which indicates good accuracy for the preparation and analysis technique on the given sample matrix. The third MS/MSD (2013-RO-3 (0-0.5)) has MS/MSD recoveries above the criteria, which indicates a potential high bias for detects. Thus, the reviewer qualified the detects for Lead in the samples associated with this MS/MSD (i.e., similar samples prepared in the same batch) as estimated with a high bias (JH). The reviewer considered soil samples from the site with the same order of magnitude of Lead concentration to be similar. Per this method, two samples were qualified (the parent sample (2013-RO-3 (0-0.5) and sample 2013-FWCS-1B (1.1-1.6)).

QC PARAMETER	QC OUTCOME
Matrix Spike Recovery	For the remaining MS/MSD, the spiking level was not adequate and thus the reviewer waived the check. Note that the MS and/or MSD recovery is outside the criteria for each of these MS/MSD but the PDS recoveries are within the criteria, which indicates good accuracy for the analysis technique on the given sample matrix and provides evidence of suitability of the analytical method for the given matrix.
Surrogate Recovery	TestAmerica performed the organic (SVOC and TPH) analyses and used six surrogates for each SVOC analysis and one surrogate for each TPH analysis. Surrogate recoveries are within the laboratory limits, which indicates that the overall accuracy of the preparation and analysis technique is good for each particular sample.
Laboratory Duplicate Precision	The laboratories prepared at least one Matrix Spike Duplicate (MSD) for each analytical batch. Additionally, TestAmerica prepared one Matrix Duplicate (MD) with each metals analytical batch. RPDs are reported for MSD and MD prepared using a sample from the site. As shown in Table 1, several MSD and MD were prepared for metals using an APAR sample from the site. The RPDs are within the TRRP recommended criteria for Arsenic, Cadmium, and Selenium, which indicates good precision for the preparation and analysis technique on the given sample matrix, except in two cases as follows: • For TestAmerica QC batch 100979, the Cadmium RPD of 71% is above the limit for the MD prepared using sample 2013-CUFT-3 (0-0.5). The MSD RPD passes the criteria. • For TestAmerica QC batch 101869, the Cadmium RPD of 68% is above the limit for the MD prepared using sample 2013-STB-10 (0.5-1.1). The MSD RPD passes the criteria. The reviewer qualified the Cadmium result in each of these samples as estimated with an unknown bias (J). The MSD and MD RPDs for Lead are shown below:

Lab	MSD/MD ID	QC Batch	Parent Amount	MSD RPD	MD RPD
TestAmerica	MW-24 (0-0.5)	101055	8.82	3	41
TestAmerica	2013-CUFT-3 (0-0.5)	100979	25.4	0	70
TestAmerica	2013-RO-3 (0-0.5)	101869	26.1	3	32
TestAmerica	SDA-4A (0.5-2)	101117	69.6	15	12
TestAmerica	2013-STB-10 (0.5-1.1)	101869	137	27	23
TestAmerica	SCC-3A (0-0.5)	101040	140	1	25
TestAmerica	2013-MW10-1 (0-0.5)	101040	202	25	36
TestAmerica	SCC-11A (0-0.5)	101117	268	8	11
Pace	D-11	2C29017	524	4	NA
TestAmerica	SCC-3 (2-4)	101358	1300	43	35

(MSD/MD are listed in order of increasing Lead concentration in the parent sample. RPDs highlighted in red are above the 30% data quality criteria.)

For cases where the MSD RPD is within the criteria but the MD RPD is outside the criteria, the reviewer qualified the Lead result in the parent sample only as estimated with an unknown bias (J).

QC PARAMETER	QC OUTCOME
Laboratory Duplicate Precision	For the case where both the MSD RPD and MD RPD is outside the criteria, the reviewer determined that precision for the other samples may be affected and thus qualified the detects for Lead in the samples associated with this MSD/MD (i.e., similar samples prepared in the same batch) as estimated with an unknown bias (J). The reviewer considered soil samples from the site with the same order of magnitude of Lead concentration to be similar. Per this method, only the parent sample (SCC-3 (2-4)) was qualified.
Field Duplicate Precision	Five field duplicates were collected with the samples. Results are summarized in Table 3. The RPDs (or the absolute difference between results for concentrations <5xMQL and for non-detects) are within the TRRP criteria for all pairs for Cadmium and Sulfate, which indicates good precision for the sampling, preparation, and analysis technique on the given sample matrix. The RPDs for Lead are outside the criteria for four of the five duplicate pairs. This is not considered unusual for metals in contaminated soils but does suggest that extra care should be taken in obtaining representative samples and well-homogenized field duplicates for future sampling events. For each duplicate pair with a high RPD, the reviewer qualified the detects for Lead in the original sample and field duplicate sample as estimated with an unknown bias (J).
Instrument Tuning	According to the LRC, instrument tuning met method requirements for the samples, which indicates the GC/MS instrument was properly set up to identify analytes.
Instrument Calibration	According to the LRC, initial and continuing calibration data met method requirements for all reported results, which indicates the instruments were properly calibrated to measure analyte concentrations, except as follows: • For the TestAmerica continuing calibration blank (CCB) analyzed on 3/21/13 at 10:00, Lead was detected above the reporting limit. The associated sample (i.e., the one project sample analyzed before or after this CCB, which is sample 2012-FWCS-12 (4-5)) has a detect for Lead at a concentration greater than ten times that in the blank. Thus, no data qualification is required.
Instrument Performance	According to the LRC, the serial dilution and ICP interference check samples met method requirements, which indicates that no significant matrix interference exists, except as follows: • The %difference for the TestAmerica serial dilutions (SD) prepared using samples 2013-MW10-1 (0-0.5) (lab ID 600-69563-018) and MW-24 (0-0.5) (lab ID 600-69563-060) are above the acceptance limits due to matrix interference. As shown in Attachment 2, the %differences (18% for 600-69563-018 and 28% for 600-69563-060) are above the method limit (10%) but within the data quality criteria in TRRP-13 (30%). Thus, no data qualification is required.
Internal Standards	According to the LRC, area counts and retention times were within method requirements.

TABLE 1
EXIDE FORMER OPERATING PLANT
APAR SOIL SAMPLING – MARCH 2012 AND MARCH 2013

SAMPLES ANALYZED

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch							
						Total As	Total Cd	Total Pb	Total Se	SO4	pH	TPH	SVOC
Pace Analytical Services, Inc. – Allen, TX													
1203765-31	D-11	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-31	D-11	MS	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-31	D-11	MSD	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-32	D-12	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-33	D-13	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-34	D-14	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-35	D-15	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-36	E-11	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-37	E-12	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-38	E-13	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-39	E-14	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
1203765-40	E-15	INV	Solid	3/28/12	10	NA	2C299017	2C299017	NA	NA	NA	NA	NA
TestAmerica – Houston, TX													
600-69484-001	ECO-8 (0.5-2)	INV	Solid	3/4/13	1	NA	NA	100979	NA	NA	NA	NA	NA
600-69484-004	SDA-3A (0.0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-008	SDA-4A (0.0-0.5)	INV	Solid	3/4/13	1	100979	100979	100979	NA	NA	NA	NA	NA
600-69484-009	SDA-4A (0.5-2)	INV	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-009	SDA-4A (0.5-2)	MS	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-009	SDA-4A (0.5-2)	MSD	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-009	SDA-4A (0.5-2)	MD	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-012	BS3 (1-2)	INV	Solid	3/4/13	1	NA	NA	100979	NA	NA	NA	NA	NA
600-69484-013	BS3 (2-4)	INV	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-015	2013-CUFT-3 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-015DL	2013-CUFT-3 (0-0.5)	INV	Solid	3/4/13	10	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-015	2013-CUFT-3 (0-0.5)	MS	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-015	2013-CUFT-3 (0-0.5)	MSD	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch							
						Total As	Total Cd	Total Pb	Total Se	SO4	pH	TPH	SVOC
600-69484-015	2013-CUFT-3 (0-0.5)	MD	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-019	2013-CUFT-9 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-019DL	2013-CUFT-9 (0-0.5)	INV	Solid	3/4/13	10	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-023	2013-CUFT-8 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-023DL	2013-CUFT-8 (0-0.5)	INV	Solid	3/4/13	10	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-027	2013-CUFT-4 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-027DL	2013-CUFT-4 (0-0.5)	INV	Solid	3/4/13	10	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-031	2013-CUFT-5 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	100976	NA	NA	NA
600-69484-035	2013-CUFT-6 (0-0.5)	INV	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-035DL	2013-CUFT-6 (0-0.5)	INV	Solid	3/4/13	2	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-039	2013-CUFT-7 (0-0.5)	INV	Solid	3/4/13	1	100979	100979	100979	NA	100976	NA	NA	NA
600-69484-040	2013-CUFT-7 (0.5-2)	INV	Solid	3/4/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69484-043	Dup 1	FD	Solid	3/4/13	1	NA	100979	100979	NA	NA	NA	NA	NA
600-69484-043DL	Dup 1	FD	Solid	3/4/13	2	NA	NA	NA	NA	100976	NA	NA	NA
600-69484-044	ECO-6 (0.5-2)	INV	Solid	3/4/13	1	NA	NA	100979	NA	NA	NA	NA	NA
600-69563-001	ECO-9 (0.5-2)	INV	Solid	3/4/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-003	MW-23 (0-0.5)	INV	Solid	3/5/13	1	101040	101040	101040	101040	NA	101064	NA	NA
600-69563-004	MW-23 (0.5-2)	INV	Solid	3/5/13	1	NA	NA	104520	NA	NA	NA	NA	NA
600-69563-007	2013-BSA-7 (0-2)	INV	Solid	3/5/13	1	NA	NA	NA	NA	NA	101064	NA	NA
600-69563-008	2013-BSA-6 (0-2)	INV	Solid	3/5/13	1	NA	NA	NA	NA	NA	101064	NA	NA
600-69563-009	2013-MW10-3 (0-0.5)	INV	Solid	3/5/13	1	NA	101040	NA	NA	NA	NA	NA	NA
600-69563-009DL	2013-MW10-3 (0-0.5)	INV	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-009	2013-MW10-3 (0-0.5)	MS	Solid	3/5/13	1	NA	101040	NA	NA	NA	NA	NA	NA
600-69563-009DL	2013-MW10-3 (0-0.5)	MS	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-009	2013-MW10-3 (0-0.5)	MSD	Solid	3/5/13	1	NA	101040	NA	NA	NA	NA	NA	NA
600-69563-009DL	2013-MW10-3 (0-0.5)	MSD	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-009	2013-MW10-3 (0-0.5)	MD	Solid	3/5/13	1	NA	101040	NA	NA	NA	NA	NA	NA
600-69563-009DL	2013-MW10-3 (0-0.5)	MD	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-010	2013-MW10-3 (0.5-2)	INV	Solid	3/5/13	1	NA	NA	101358	NA	NA	NA	NA	NA
600-69563-013	Dup 2	FD	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA
600-69563-014	2013-MW10-2 (0-0.5)	INV	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA
600-69563-015	2013-MW10-2 (0.5-2)	INV	Solid	3/5/13	1	NA	NA	104520	NA	NA	NA	NA	NA
600-69563-018	2013-MW10-1 (0-0.5)	INV	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch							
						Total As	Total Cd	Total Pb	Total Se	SO4	pH	TPH	SVOC
600-69563-022	SCC-3 (0.5-2)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-023	SCC-3 (2-4)	INV	Solid	3/5/13	1	101358	NA	101358	101358	NA	NA	NA	NA
600-69563-023	SCC-3 (2-4)	MS	Solid	3/5/13	1	101358	NA	101358	101358	NA	NA	NA	NA
600-69563-023	SCC-3 (2-4)	MSD	Solid	3/5/13	1	101358	NA	101358	101358	NA	NA	NA	NA
600-69563-023	SCC-3 (2-4)	MD	Solid	3/5/13	1	101358	NA	101358	101358	NA	NA	NA	NA
600-69563-024	SCC-3 (4-5)	INV	Solid	3/5/13	1	NA	NA	101546	NA	NA	NA	NA	NA
600-69563-025	SCC-3A (0-0.5)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-025	SCC-3A (0-0.5)	MS	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-025	SCC-3A (0-0.5)	MSD	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-025	SCC-3A (0-0.5)	MD	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-029	MW-27 (0-1)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	100982	100975
600-69563-033	2013-FWFS-1A (2-4)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-034	2013-FWFS-1A (4-5)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-035	MW-29 (2.5-4)	INV	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA
600-69563-036	MW-29 (4-5)	INV	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA
600-69563-037	2012-FWCS-1 (2.5-4)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-038	2012-FWCS-1 (4-5)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-039	2012-FWCS-1A (1-2)	INV	Solid	3/5/13	1	101040	NA	NA	101040	NA	NA	NA	NA
600-69563-039DL	2012-FWCS-1A (1-2)	INV	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-040	2012-FWCS-1A (2-4)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-042	Dup 3	FD	Solid	3/5/13	10	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-043	SCC-10 (0.5-2)	INV	Solid	3/5/13	1	NA	NA	101040	NA	NA	NA	NA	NA
600-69563-046	SCC-10A (0-0.5)	INV	Solid	3/5/13	1	NA	101040	101040	NA	NA	NA	NA	NA
600-69563-050	2013-RO-1 (0-0.5)	INV	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69563-051	2013-RO-1 (0.5-1)	INV	Solid	3/5/13	1	NA	NA	101358	NA	NA	NA	NA	NA
600-69563-055	2013-RO-2 (0-0.5)	INV	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69563-060	MW-24 (0-0.5)	INV	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69563-060	MW-24 (0-0.5)	MS	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69563-060	MW-24 (0-0.5)	MSD	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69563-060	MW-24 (0-0.5)	MD	Solid	3/5/13	1	NA	101055	101055	NA	NA	NA	NA	NA
600-69642-001	MW-21 (0-0.5)	INV	Solid	3/5/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-005	ECO-12 (0-0.5)	INV	Solid	3/5/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-009	MW-22 (0-0.5)	INV	Solid	3/5/13	1	101117	101117	101117	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch							
						Total As	Total Cd	Total Pb	Total Se	SO4	pH	TPH	SVOC
600-69642-013	ECO-11 (0-0.5)	INV	Solid	3/5/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-017	2012-NDA-1 (4-5)	INV	Solid	3/5/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69642-019	SCC-11A (0-0.5)	INV	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-019	SCC-11A (0-0.5)	MS	Solid	3/6/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-019	SCC-11A (0-0.5)	MSD	Solid	3/6/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-019	SCC-11A (0-0.5)	MD	Solid	3/6/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-022	SCC-11 (2-4)	INV	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-023	Dup 4	FD	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-024	2012-SL-1 (4-5)	INV	Solid	3/6/13	50	NA	NA	101117	NA	NA	NA	NA	NA
600-69642-026	E-11A (0-0.5)	INV	Solid	3/6/13	1	101117	101117	101117	NA	NA	NA	NA	NA
600-69642-030	E-11 (0.5-2)	INV	Solid	3/6/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69642-031	E-11 (2-4)	INV	Solid	3/6/13	1	NA	105346	105346	NA	NA	NA	NA	NA
600-69642-031	E-11 (2-4)	MS	Solid	3/6/13	1	NA	105346	105346	NA	NA	NA	NA	NA
600-69642-031	E-11 (2-4)	MSD	Solid	3/6/13	1	NA	105346	105346	NA	NA	NA	NA	NA
600-69642-031	E-11 (2-4)	MD	Solid	3/6/13	1	NA	105346	105346	NA	NA	NA	NA	NA
600-69642-032	E-11 (4-5)	INV	Solid	3/6/13	1	NA	105557	105557	NA	NA	NA	NA	NA
600-69642-032	E-11 (4-5)	MS	Solid	3/6/13	1	NA	105557	105557	NA	NA	NA	NA	NA
600-69642-032	E-11 (4-5)	MSD	Solid	3/6/13	1	NA	105557	105557	NA	NA	NA	NA	NA
600-69642-032	E-11 (4-5)	MD	Solid	3/6/13	1	NA	105557	105557	NA	NA	NA	NA	NA
600-69642-033	E-15A (0-0.5)	INV	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-037	MW-29 (0-0.5)	INV	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-039	ECO-3 (0.5-2)	INV	Solid	3/6/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69642-041	ECO-7 (0.5-2)	INV	Solid	3/6/13	1	NA	NA	101117	NA	NA	NA	NA	NA
600-69642-043	ECO-7A (0-0.5)	INV	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-69642-046	Dup-5	FD	Solid	3/6/13	1	NA	101117	101117	NA	NA	NA	NA	NA
600-70120-001	2013-STB-9 (0.5-1.0)	INV	Solid	3/14/13	1	NA	101869	NA	NA	NA	NA	NA	NA
600-70120-001DL	2013-STB-9 (0.5-1.0)	INV	Solid	3/14/13	10	NA	NA	101869	NA	NA	NA	NA	NA
600-70120-002	2013-STB-10 (0.5-1.1)	INV	Solid	3/14/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-002	2013-STB-10 (0.5-1.1)	MS	Solid	3/14/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-002	2013-STB-10 (0.5-1.1)	MSD	Solid	3/14/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-002	2013-STB-10 (0.5-1.1)	MD	Solid	3/14/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-003	2013-STB-12 (0.5-1.2)	INV	Solid	3/14/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-004	2012-FWCS-12 (2-2.7)	INV	Solid	3/15/13	1	NA	101869	NA	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch							
						Total As	Total Cd	Total Pb	Total Se	SO4	pH	TPH	SVOC
600-70120-004DL	2012-FWCS-12 (2-2.7)	INV	Solid	3/15/13	20	NA	NA	101869	NA	NA	NA	NA	NA
600-70120-005	2012-FWCS-12 (4-5)	INV	Solid	3/15/13	1	NA	NA	102067	NA	NA	NA	NA	NA
600-70120-006	2013-MW-17A (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-010	2013-RO-3 (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-010	2013-RO-3 (0-0.5)	MS	Solid	3/15/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-010	2013-RO-3 (0-0.5)	MSD	Solid	3/15/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-010	2013-RO-3 (0-0.5)	MD	Solid	3/15/13	1	101869	101869	101869	NA	NA	NA	NA	NA
600-70120-014	ECO-7B (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-018	E-11B (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-022	2013-FWCS-1B (1.1-1.6)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-026	2013-WMU17-1 (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-027	2013-WMU17-2 (0-0.5)	INV	Solid	3/15/13	1	NA	101869	101869	NA	NA	NA	NA	NA
600-70120-028	2013-AD-2 (0-0.5)	INV	Solid	3/15/13	1	101869	101869	NA	NA	NA	NA	NA	NA
600-70120-028DL	2013-AD-2 (0-0.5)	INV	Solid	3/15/13	10	NA	NA	101869	NA	NA	NA	NA	NA

DF – Dilution Factor

FD – Field Duplicate

INV – Investigative

MD – Matrix Duplicate

MS – Matrix Spike

MSD – Matrix Spike Duplicate

Field Duplicate (FD) Key:

Field Duplicate		Original Sample	
Lab ID	Field ID	Lab ID	Field ID
600-69484-043	Dup 1	600-69484-035	2013-CUFT-6 (0-0.5)
600-69563-013	Dup 2	600-69563-009	2013-MW10-3 (0-0.5)
600-69563-042	Dup 3	600-69563-039	2012-FWCS-1A (1-2)
600-69642-023	Dup 4	600-69642-022	SCC-11 (2-4)
600-69642-046	Dup-5	600-69642-041	ECO-7 (0.5-2)

TABLE 2
EXIDE FORMER OPERATING PLANT
APAR SOIL SAMPLING – MARCH 2012 AND MARCH 2013

QUALIFIED SAMPLE RESULTS

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2013-CUFT-3 (0-0.5)	600-69484-015	3/4/13	Cadmium	1.58		mg/kg	J	Poor MD precision (71 RPD)
2013-CUFT-3 (0-0.5)	600-69484-015	3/4/13	Lead	25.4		mg/kg	J	Poor MD precision (70 RPD)
2013-CUFT-6 (0-0.5)	600-69484-035	3/4/13	Lead	71.3		mg/kg	J	Poor field duplicate precision (135 RPD); Use higher value (from the field duplicate)
2013-FWCS-1B (1.1-1.6)	600-70120-022	3/15/13	Lead	80.1		mg/kg	JH	High MS/MSD recovery (161%/152%)
2013-MW10-1 (0-0.5)	600-69563-018	3/5/13	Lead	202	b	mg/kg	J	Poor MD precision (36 RPD)
2013-MW10-3 (0-0.5)	600-69563-009	3/5/13	Lead	3920	b	mg/kg	J	Poor field duplicate precision (88 RPD); Use higher value (from the original sample)
2013-RO-3 (0-0.5)	600-70120-010	3/15/13	Lead	26.1		mg/kg	J	High MS/MSD recovery (161%/152%); Poor MD precision (32 RPD)
2013-STB-10 (0.5-1.1)	600-70120-002	3/14/13	Cadmium	7.5		mg/kg	J	Poor MD precision (68 RPD)
Dup 1	600-69484-043	3/4/13	Lead	365		mg/kg	J	Poor field duplicate precision (135 RPD); Use higher value (from the field duplicate)
Dup 2	600-69563-013	3/5/13	Lead	1520	b	mg/kg	J	Poor field duplicate precision (88 RPD); Use higher value (from the original sample)
Dup 4	600-69642-023	3/6/13	Lead	60.9	b	mg/kg	J	Poor field duplicate precision (110 RPD); Use higher value (from the field duplicate)
Dup-5	600-69642-046	3/6/13	Lead	400	b	mg/kg	J	Poor field duplicate precision (136 RPD); Use higher value (from the field duplicate)
ECO-7 (0.5-2)	600-69642-041	3/6/13	Lead	76.5	b	mg/kg	J	Poor field duplicate precision (136 RPD); Use higher value (from the field duplicate)
MW-24 (0-0.5)	600-69563-060	3/5/13	Lead	8.82	b	mg/kg	J	Poor MD precision (41 RPD)
MW-27 (0-1)	600-69563-029	3/5/13	Benzidine	0.0115	U *	mg/kg	R	Extremely low LCS recovery (0%)
MW-27 (0-1)	600-69563-029	3/5/13	3,3'-Dichlorobenzidine	0.013	U *	mg/kg	R	Extremely low LCS recovery (0%)
SCC-11 (2-4)	600-69642-022	3/6/13	Lead	17.6	b	mg/kg	J	Poor field duplicate precision (110 RPD); Use higher value (from the field duplicate)

Field ID	Lab ID	Sample Date	Analyte	Lab Result		DVQ	QC_Comment
SCC-3 (2-4)	600-69563-023	3/5/13	Lead	1300	mg/kg	J	Poor MSD precision (43 RPD), Poor MD precision (35 RPD)

Note: In addition to the above results, all detects between the SDL and MQL (i.e., results with a laboratory J-flag) should be considered estimated since the reported concentration is below the calibration range.

J Estimated data; The analyte was detected and identified. The associated numerical value (i.e., the reported sample concentration) is the approximate concentration of the analyte in the sample.

NJ Tentatively identified, estimated data; The analysis indicates the presence of the analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.

NS Not selected; Another result (from a secondary dilution, different analytical method, re-sampling, etc.) is selected for use based on QC outcomes and/or reported concentrations.

R Rejected data; The data is unusable. Serious QC deficiencies make it impossible to verify the absence or presence of this analyte.

U Not detected; The analyte was not detected >5x (10x for common contaminants) the level in an associated blank and thus should be considered not detected above the level of the associated numerical value (i.e., the reported sample concentration).

UJ Estimated data; The analyte was not detected above the reported sample detection limit (SDL). The numerical value of the SDL is estimated and may be inaccurate.

X7 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.

X8 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte in this matrix by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.

H Bias in sample result is likely to be high

L Bias in sample result is likely to be low

NOTE: For multiple QC issues, the reviewer applied the most severe flag. (R >U >NJ >J >JL/JH for detects and R >UJ >UJL for non-detects)

TABLE 3
EXIDE FORMER OPERATING PLANT
APAR SOIL SAMPLING – MARCH 2012 AND MARCH 2013

FIELD DUPLICATE RESULTS

Field Duplicate	Original Sample	Sample Date	Method	Analyte	Field Duplicate Result			Original Sample Result			RPD	Absolute Difference	3x MQL	Qualified
Dup 1	2013-CUFT-6 (0-0.5)	3/4/13	9056	Sulfate	294		mg/kg	314		mg/kg	6.6	NA	15	no
Dup 1	2013-CUFT-6 (0-0.5)	3/4/13	6010B	Cadmium	7.8		mg/kg	7.65		mg/kg	1.9	NA	0.75	no
Dup 1	2013-CUFT-6 (0-0.5)	3/4/13	6010B	Lead	365		mg/kg	71.3		mg/kg	135	NA	1.5	yes
Dup 2	2013-MW10-3 (0-0.5)	3/5/13	6010B	Cadmium	13.6		mg/kg	18.8		mg/kg	32	NA	0.75	no
Dup 2	2013-MW10-3 (0-0.5)	3/5/13	6010B	Lead	1520	b	mg/kg	3920	b	mg/kg	88	NA	1.5	yes
Dup 3	2012-FWCS-1A (1-2)	3/5/13	6010B	Lead	12100	b	mg/kg	19400	b	mg/kg	46	NA	1.5	no
Dup 4	SCC-11 (2-4)	3/6/13	6010B	Cadmium	0.697		mg/kg	0.538		mg/kg	NA	0.159	0.75	no
Dup 4	SCC-11 (2-4)	3/6/13	6010B	Lead	60.9	b	mg/kg	17.6	b	mg/kg	110	NA	1.5	yes
Dup-5	ECO-7 (0.5-2)	3/6/13	6010B	Lead	400	b	mg/kg	76.5	b	mg/kg	136	NA	1.5	yes

Note: The RPD test (≤50%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test (≤ 3x MQL) applies.

ATTACHMENT 1

APPLICABLE PAGES OF THE
LABORATORIES ACCREDITATION CERTIFICATES

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704232-11-3

Pace Analytical Services, Inc. - Dallas

Expiration Date: 6/30/2012

400 West Bethany Drive, Suite 190
Allen, TX 75013-3714

Issue Date: 12/15/2011

These fields of accreditation supercedeall previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1030

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10117201

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Orthophosphate as P	TX	1870	10053006
Sulfate	TX	2000	10053006

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704232-11-3

Pace Analytical Services, Inc. - Dallas
Expiration Date: 6/30/2012

400 West Bethany Drive, Suite 190
Allen, TX 75013-3714
Issue Date: 12/15/2011

These fields of accreditation supercedeall previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609
Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10156408
Antimony	TX	1005	10156408
Arsenic	TX	1010	10156408
Barium	TX	1015	10156408
Beryllium	TX	1020	10156408
Cadmium	TX	1030	10156408
Calcium	TX	1035	10156408
Chromium	TX	1040	10156408

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Dinitrobenzene	TX	6155	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Dinitrobenzene	TX	6165	10185805
1,4-Naphthoquinone	TX	6420	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

1,4-Phenylenediamine	TX	6630	10185805
1-Chloronaphthalene	TX	5790	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Diaminotoluene	TX	5880	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethoxybenzidine	TX	6100	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

4,4'-Methylenebis(2-chloroaniline)	TX	6365	10185805
4,4'-Methylenebis(n,n-dimethylaniline)	TX	6370	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-1,3-phenylenediamine	TX	5850	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aminoazobenzene	TX	5535	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aramite	TX	5560	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Azobenzene	TX	5562	10185805
Benzenethiol (Thiophenol)	TX	6750	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Captan	TX	7190	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenz(a,j) acridine	TX	5900	10185805
Dibenzo(a,e) pyrene	TX	5890	10185805
Dibenzofuran	TX	5905	10185805
Dichlone	TX	7430	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185805
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hydroquinone	TX	6310	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Methylphenols, total	TX	10313	10185805
Mevinphos	TX	7850	10185805
Mirex	TX	7870	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
Nitroquinoline-1-oxide	TX	6515	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805
Parathion, ethyl	TX	7955	10185805
p-Benzoquinone (Quinone)	TX	5620	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Safrole	TX	6685	10185805
Sulfotepp	TX	8155	10185805
Thionazin (Zinophos)	TX	8235	10185805
Toluene diisocyanate	TX	6775	10185805
tris-(2,3-Dibromopropyl) phosphate (tris-BP)	TX	8310	10185805

Method EPA 8315

Analyte	**AB**	**Analyte ID**	**Method ID**
Formaldehyde	TX	4815	10188008

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193405
Total Cyanide	TX	1635	10193405

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10196006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 9038

Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9050

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198808

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9066

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10200609

Method EPA 9071

Analyte	AB	Analyte ID	Method ID

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10201806
Method EPA 9095			
Analyte	**AB**	**Analyte ID**	**Method ID**
Paint Filter Liquids Test	TX	10312	10204203
Method SSA/ASA Part 3:34			
Analyte	**AB**	**Analyte ID**	**Method ID**
Carbon, organic (Walkley-Black)	TX	10340	SSA/ASA Pt 3:34
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT 2

LABORATORY PACKAGE ADDENDA

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-2

Method Blank - Batch: 600-101117

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101117/1-A	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1600	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Lead	0.1550	J	0.105	0.500

LCS-Certified Reference Material - Batch: 600-101117

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/07/2013 1602	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	76.9	76.28	99.2	81.3 - 118.7	

Post Digestion Spike - Batch: 600-101117

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69484-9	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/07/2013 1723	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	69.6	61.2	124.4	90	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101117

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69484-9	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	03/07/2013 1609			Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69484-9	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1611			Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	149	202	75 - 125	15	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101117

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69484-9	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/07/2013 1609		
Prep Date:	03/07/2013 1110		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69484-9
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/07/2013 1611
Prep Date:	03/07/2013 1110
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Lead	69.6	64.2	60.6	165.2	N	192.3	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-2

Duplicate - Batch: 600-101117

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69484-9	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	03/07/2013 1606	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	69.6	61.98	12	20	

Serial Dilution - Batch: 600-101117

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69484-9	Analysis Batch:	600-101149	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101117	Lab File ID:	A030713.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/07/2013 1725	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/07/2013 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Lead	69.6	69.82	0.31	10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-2

Duplicate - Batch: 600-101121

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-69642-A-30 DU	Analysis Batch:	600-101121	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/07/2013 1133	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	20	19	6	20	
Percent Solids	80	81	1	20	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Method Blank - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101040/1-A	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1022	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.1365	J	0.105	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/07/2013 1026	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	96.56	93.8	83.6 - 115.5	
Lead	76.9	74.13	96.4	81.3 - 118.7	
Arsenic	168	168.4	100.2	83.3 - 117.3	
Selenium	126	123.2	97.7	80.2 - 120.6	

Post Digestion Spike - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	03/07/2013 1227	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.578		29.7	23.40	77	75 - 125	
Lead	202		59.4	245.2	72	75 - 125	W
Arsenic	8.67		59.4	59.96	86	75 - 125	
Selenium	0.308	U	59.4	48.73	82	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1056			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1110			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	72	75	75 - 125	6	20	N	
Lead	-104	-33	75 - 125	25	20	N	N
Arsenic	83	84	75 - 125	3	20		
Selenium	77	80	75 - 125	5	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	03/07/2013 1126			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1129			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	78	80	75 - 125	4	20		
Lead	18	20	75 - 125	1	20	N	N
Arsenic	87	91	75 - 125	5	20		
Selenium	84	88	75 - 125	5	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-18	Units:	mg/Kg	MSD Lab Sample ID:	600-69563-18
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/07/2013 1056			Analysis Date:	03/07/2013 1110
Prep Date:	03/06/2013 1358			Prep Date:	03/06/2013 1358
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	0.578		28.2	28.6	20.94	N	22.13	
Lead	202		56.4	57.3	143.4	N	183.5	N
Arsenic	8.67		56.4	57.3	55.34		57.01	
Selenium	0.308	U	56.4	57.3	43.22		45.62	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-25	Units:	mg/Kg	MSD Lab Sample ID:	600-69563-25
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/07/2013 1126			Analysis Date:	03/07/2013 1129
Prep Date:	03/06/2013 1358			Prep Date:	03/06/2013 1358
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	0.918		28.7	28.9	23.19		24.11	
Lead	140		57.4	57.9	150.4	N	151.9	N
Arsenic	10.9		57.4	57.9	60.88		63.78	
Selenium	0.311	U	57.4	57.9	48.44		50.90	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Duplicate - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/07/2013 1053	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.578		0.6124	6	20	
Lead	202		289.8	36	20	F
Arsenic	8.67		10.79	22	20	F
Selenium	0.308	U	0.311	NC	20	U

Duplicate - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	03/07/2013 1122	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.918		0.6783	30	20	
Lead	140		108.5	25	20	F
Arsenic	10.9		12.27	12	20	
Selenium	0.311	U	0.305	NC	20	U

Serial Dilution - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	03/07/2013 1231	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.578		0.5287	NC	10	J
Lead	202		238.0	18	10	*
Arsenic	8.67		10.05	NC	10	
Selenium	0.308	U	1.54	NC	10	U

Client: Pastor, Behling & Wheeler LLC Job Number: 600-69563-1

Method Blank - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101055/1-A	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1243	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.1560	J	0.105	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/07/2013 1246	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	95.06	92.3	83.6 - 115.5	
Lead	76.9	69.12	89.9	81.3 - 118.7	
Arsenic	168	160.4	95.5	83.3 - 117.3	
Selenium	126	114.8	91.1	80.2 - 120.6	

Post Digestion Spike - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1344	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.0829	J	28.6	22.17	77	75 - 125	
Lead	8.82		57.1	52.68	77	75 - 125	
Arsenic	8.79		57.1	58.11	86	75 - 125	
Selenium	0.296	U	57.1	45.10	79	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101055

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1306			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	03/07/2013 1310			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	74	77	75 - 125	2	20	N	
Lead	79	77	75 - 125	3	20		
Arsenic	80	87	75 - 125	6	20		
Selenium	74	76	75 - 125	1	20	N	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101055

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-60	Units:	mg/Kg	MSD Lab Sample ID:	600-69563-60
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/07/2013 1306			Analysis Date:	03/07/2013 1310
Prep Date:	03/06/2013 1458			Prep Date:	03/06/2013 1458
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual
Cadmium	0.0829	J	30.0	29.7	22.36	N	22.87
Lead	8.82		60.0	59.4	56.40		54.51
Arsenic	8.79		60.0	59.4	56.81		60.58
Selenium	0.296	U	60.0	59.4	44.65	N	45.18

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Duplicate - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1302	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.0829	J	0.1261	41	20	J
Lead	8.82		13.35	41	20	F
Arsenic	8.79		10.07	14	20	
Selenium	0.296	U	0.288	NC	20	U

Serial Dilution - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1348	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.0829	J	0.147	NC	10	U
Lead	8.82		11.29	28	10	*
Arsenic	8.79		10.84	NC	10	
Selenium	0.296	U	1.48	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Method Blank - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101869/1-A	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/18/2013 1548	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/18/2013 1550	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	98.45	95.6	83.6 - 115.5	
Lead	76.9	80.12	104.2	81.3 - 118.7	

Post Digestion Spike - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70120-2	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1651	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	7.50	28.0	33.24	92	75 - 125	
Lead	137	56.0	189.4	93	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101869

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70120-2	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	03/18/2013 1606			Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

MSD Lab Sample ID:	600-70120-2	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1608			Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	110	88	75 - 125	18	20		
Lead	188	87	75 - 125	27	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101869

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70120-10	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	03/18/2013 1631			Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

MSD Lab Sample ID:	600-70120-10	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1633			Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	96	97	75 - 125	3	20		
Lead	161	152	75 - 125	3	20	N	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101869

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70120-2	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/18/2013 1606		
Prep Date:	03/18/2013 1044		
Leach Date:	N/A		

MSD Lab Sample ID:	600-70120-2
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/18/2013 1608
Prep Date:	03/18/2013 1044
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	7.50	28.3	28.0	38.64		32.27	
Lead	137	56.6	56.0	243.9	N	186.3	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101869

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-70120-10	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/18/2013 1631		
Prep Date:	03/18/2013 1044		
Leach Date:	N/A		

MSD Lab Sample ID:	600-70120-10
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/18/2013 1633
Prep Date:	03/18/2013 1044
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	0.347	29.3	29.9	28.59		29.33	
Lead	26.1	58.7	59.8	120.8	N	116.8	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Duplicate - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70120-2	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	03/18/2013 1604	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	7.50	3.699	68	20	F
Lead	137	109.3	23	20	F

Duplicate - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70120-10	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/18/2013 1621	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.347	0.4783	32	20	
Lead	26.1	18.88	32	20	F

Serial Dilution - Batch: 600-101869

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-70120-2	Analysis Batch:	600-101886	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-101869	Lab File ID:	A031813.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	03/18/2013 1653	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/18/2013 1044				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Cadmium	7.50	7.760	3.5	10	
Lead	137	137.2	0.18	10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Duplicate - Batch: 600-101841

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-70120-1	Analysis Batch:	600-101841	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/16/2013 1819	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	7.8	7.7	1	20	
Percent Solids	92	92	0.1	20	

Duplicate - Batch: 600-101841

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-70120-A-27 DU	Analysis Batch:	600-101841	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/16/2013 1819	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture		12			
Percent Solids		88			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69484-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/11/2013 11:35:19 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 12
Method Summary 13
Sample Summary 14
Client Sample Results 15
Definitions/Glossary 19
QC Sample Results 20
Default Detection Limits 22
QC Association Summary 23
Lab Chronicle 25
Certification Summary 28
Chain of Custody 29
Receipt Checklists 34

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69484-1rev

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/11/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69484
Reviewer Name: BDG	Prep Batch Number(s): 600-100976 – Sulfate

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69484
Reviewer Name: BDG	Prep Batch Number(s): 600-100976 – Sulfate

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69484
Reviewer Name: BDG	Prep Batch Number(s): 600-100976 – Sulfate

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The Sulfate SDLs for samples 600-69484-15, 19, 23, 27, 35 and 43 were elevated due to the high concentrations of this analyte.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484
Reviewer Name: TWR	Prep Batch Number(s): 600-100979- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			1
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484
Reviewer Name: TWR	Prep Batch Number(s): 600-100979- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			2
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484
Reviewer Name: TWR	Prep Batch Number(s): 600-100979- ICP

ER #[1]	DESCRIPTION
1	The cadmium and lead RPDs between samples 69484-15 and 69484-15 MD were above acceptance limits due to the non-homogenous nature of the samples.
2	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Soil
Method: 300.0, 9056
Preparation: DI LEACH
Date Analyzed: 12/17/2012
Date Prepared: 12/17/2012
TALs Batches: N/A
Units: mg/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Fluoride	0.9	2	1.56	2
Chloride	1.68	3	2.95	4
Nitrite	1.27	2	2.15	2
Bromide	1.06	2	2.2	2
Nitrate	0.7	1.5	2.15	2
Orthophosphate	1.76	2	1.84	2
Sulfate	1.19	2	2.32	4

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69484-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69484-1

Comments
The report was revised on 06/11/13 to include arsenic in the metals section of the report per client request.

Receipt
The samples were received on 3/5/2013 8:46 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 2 coolers at receipt time were 1.3º C and 2.2º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
9056	Anions, Ion Chromatography	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69484-1	ECO-8 (0.5-2)	Solid	03/04/13 10:00	03/05/13 08:46
600-69484-4	SDA-3A (0.0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-8	SDA-4A (0.0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-12	BS3 (1-2)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-15	2013-CUFT-3 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-19	2013-CUFT-9 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-23	2013-CUFT-8 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-27	2013-CUFT-4 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-31	2013-CUFT-5 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-35	2013-CUFT-6 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-39	2013-CUFT-7 (0-0.5)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-43	Dup 1	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-44	ECO-6 (0.5-2)	Solid	03/04/13 00:00	03/05/13 08:46

Client Sample ID: ECO-8 (0.5-2)

Lab Sample ID: 600-69484-1

Date Collected: 03/04/13 10:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 79.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	112		0.630	0.132	mg/Kg	☼	03/06/13 08:39	03/06/13 12:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	79		1.0	1.0	%			03/05/13 15:40	1

Client Sample ID: SDA-3A (0.0-0.5)

Lab Sample ID: 600-69484-4

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 76.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.14		0.323	0.0331	mg/Kg	☼	03/06/13 08:39	03/06/13 12:26	1
Lead	452		0.645	0.135	mg/Kg	☼	03/06/13 08:39	03/06/13 12:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	76		1.0	1.0	%			03/05/13 15:40	1

Client Sample ID: SDA-4A (0.0-0.5)

Lab Sample ID: 600-69484-8

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 84.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.02		0.294	0.0301	mg/Kg	☼	03/06/13 08:39	03/06/13 12:35	1
Lead	1570		0.588	0.123	mg/Kg	☼	03/06/13 08:39	03/06/13 12:35	1
Arsenic	12.4		1.18	0.256	mg/Kg	☼	03/06/13 08:39	03/06/13 12:35	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	84		1.0	1.0	%			03/05/13 15:40	1

Client Sample ID: BS3 (1-2)

Lab Sample ID: 600-69484-12

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	610		0.622	0.130	mg/Kg	☼	03/06/13 08:39	03/06/13 12:38	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	79		1.0	1.0	%			03/05/13 15:40	1

Client Sample ID: 2013-CUFT-3 (0-0.5)

Lab Sample ID: 600-69484-15

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 73.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.58		0.322	0.0330	mg/Kg	☼	03/06/13 08:39	03/06/13 12:40	1
Lead	25.4		0.644	0.135	mg/Kg	☼	03/06/13 08:39	03/06/13 12:40	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	74		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8710		67.7	16.1	mg/Kg	☼		03/05/13 22:52	10

Client Sample ID: 2013-CUFT-9 (0-0.5)

Lab Sample ID: 600-69484-19

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.307		0.301	0.0309	mg/Kg	☼	03/06/13 08:39	03/06/13 12:50	1
Lead	32.8		0.603	0.126	mg/Kg	☼	03/06/13 08:39	03/06/13 12:50	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	78		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2960		63.9	15.2	mg/Kg	☼		03/06/13 00:02	10

Client Sample ID: 2013-CUFT-8 (0-0.5)

Lab Sample ID: 600-69484-23

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 81.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.192	J	0.282	0.0289	mg/Kg	☼	03/06/13 08:39	03/06/13 12:52	1
Lead	28.8		0.564	0.118	mg/Kg	☼	03/06/13 08:39	03/06/13 12:52	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	81		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5400		61.4	14.6	mg/Kg	☼		03/06/13 00:20	10

Client Sample ID: 2013-CUFT-4 (0-0.5)

Lab Sample ID: 600-69484-27

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 63.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.38		0.372	0.0382	mg/Kg	☼	03/06/13 08:39	03/06/13 12:54	1
Lead	107		0.745	0.156	mg/Kg	☼	03/06/13 08:39	03/06/13 12:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	63		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7200		78.9	18.8	mg/Kg	☼		03/06/13 00:37	10

Client Sample ID: 2013-CUFT-5 (0-0.5)

Lab Sample ID: 600-69484-31

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.10		0.312	0.0320	mg/Kg	☼	03/06/13 08:39	03/06/13 12:57	1
Lead	442		0.624	0.131	mg/Kg	☼	03/06/13 08:39	03/06/13 12:57	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	79		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	56.7		6.37	1.52	mg/Kg	☼		03/06/13 01:12	1

Client Sample ID: 2013-CUFT-6 (0-0.5)

Lab Sample ID: 600-69484-35

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.65		0.314	0.0322	mg/Kg	☼	03/06/13 08:39	03/06/13 13:06	1
Lead	71.3		0.627	0.132	mg/Kg	☼	03/06/13 08:39	03/06/13 13:06	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	74		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	314		13.4	3.20	mg/Kg	☼		03/06/13 01:30	2

Client Sample ID: 2013-CUFT-7 (0-0.5)

Lab Sample ID: 600-69484-39

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 58.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.68		0.409	0.0420	mg/Kg	☼	03/06/13 08:39	03/06/13 13:09	1
Lead	746		0.819	0.172	mg/Kg	☼	03/06/13 08:39	03/06/13 13:09	1
Arsenic	13.2		1.64	0.357	mg/Kg	☼	03/06/13 08:39	03/06/13 13:09	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	42		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	58		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	69.6		8.60	2.05	mg/Kg	☼		03/06/13 01:47	1

Client Sample ID: Dup 1

Lab Sample ID: 600-69484-43

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.80		0.316	0.0325	mg/Kg	☼	03/06/13 08:39	03/06/13 13:11	1
Lead	365		0.633	0.133	mg/Kg	☼	03/06/13 08:39	03/06/13 13:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	75		1.0	1.0	%			03/05/13 15:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	294		13.4	3.19	mg/Kg	☼		03/06/13 02:05	2

Client Sample ID: ECO-6 (0.5-2)

Lab Sample ID: 600-69484-44

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 79.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22.7		0.578	0.121	mg/Kg	☼	03/06/13 08:39	03/06/13 13:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/05/13 15:40	1
Percent Solids	79		1.0	1.0	%			03/05/13 15:40	1

Qualifiers

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-100979/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101016 — **Prep Batch: 100979**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/06/13 08:39	03/06/13 12:06	1
Lead	0.105	U	0.500	0.105	mg/Kg		03/06/13 08:39	03/06/13 12:06	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		03/06/13 08:39	03/06/13 12:06	1

Lab Sample ID: LCSSRM 600-100979/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101016 — **Prep Batch: 100979**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	107.4		mg/Kg		104.3	83.6 - 115.5		
Lead			76.9	80.86		mg/Kg		105.1	81.3 - 118.7		
Arsenic			168	180.5		mg/Kg		107.4	83.3 - 117.3		

Lab Sample ID: 600-69484-15 MS — **Client Sample ID: 2013-CUFT-3 (0-0.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101016 — **Prep Batch: 100979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	1.58		32.2	35.02		mg/Kg	☼	104	75 - 125		
Lead	25.4		64.4	93.11		mg/Kg	☼	105	75 - 125		
Arsenic	7.10		64.4	70.94		mg/Kg	☼	99	75 - 125		

Lab Sample ID: 600-69484-15 MSD — **Client Sample ID: 2013-CUFT-3 (0-0.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101016 — **Prep Batch: 100979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.58		31.6	33.61		mg/Kg	☼	101	75 - 125	4	20
Lead	25.4		63.2	93.07		mg/Kg	☼	107	75 - 125	0	20
Arsenic	7.10		63.2	69.99		mg/Kg	☼	99	75 - 125	1	20

Lab Sample ID: 600-69484-15 DU — **Client Sample ID: 2013-CUFT-3 (0-0.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101016 — **Prep Batch: 100979**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	1.58			3.315	F	mg/Kg	☼			71	20
Lead	25.4			52.57	F	mg/Kg	☼			70	20
Arsenic	7.10			8.220		mg/Kg	☼			15	20

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 600-100953/1-A
Matrix: Solid
Analysis Batch: 100976

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.19	U	5.00	1.19	mg/Kg			03/05/13 17:37	1

Lab Sample ID: LCS 600-100953/2-A
Matrix: Solid
Analysis Batch: 100976

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			200	201.2		mg/Kg		101	90 - 110		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69484-35 DU
Matrix: Solid
Analysis Batch: 100954

Client Sample ID: 2013-CUFT-6 (0-0.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	26			28		%				10	20
Percent Solids	74			72		%				4	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

General Chemistry - Soluble

Analyte	MQL	MDL	Units	Method
Sulfate	5.00	1.19	mg/Kg	9056

Metals

Prep Batch: 100979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-1	ECO-8 (0.5-2)	Total/NA	Solid	3050B	
600-69484-4	SDA-3A (0.0-0.5)	Total/NA	Solid	3050B	
600-69484-8	SDA-4A (0.0-0.5)	Total/NA	Solid	3050B	
600-69484-12	BS3 (1-2)	Total/NA	Solid	3050B	
600-69484-15	2013-CUFT-3 (0-0.5)	Total/NA	Solid	3050B	
600-69484-15 DU	2013-CUFT-3 (0-0.5)	Total/NA	Solid	3050B	
600-69484-15 MS	2013-CUFT-3 (0-0.5)	Total/NA	Solid	3050B	
600-69484-15 MSD	2013-CUFT-3 (0-0.5)	Total/NA	Solid	3050B	
600-69484-19	2013-CUFT-9 (0-0.5)	Total/NA	Solid	3050B	
600-69484-23	2013-CUFT-8 (0-0.5)	Total/NA	Solid	3050B	
600-69484-27	2013-CUFT-4 (0-0.5)	Total/NA	Solid	3050B	
600-69484-31	2013-CUFT-5 (0-0.5)	Total/NA	Solid	3050B	
600-69484-35	2013-CUFT-6 (0-0.5)	Total/NA	Solid	3050B	
600-69484-39	2013-CUFT-7 (0-0.5)	Total/NA	Solid	3050B	
600-69484-43	Dup 1	Total/NA	Solid	3050B	
600-69484-44	ECO-6 (0.5-2)	Total/NA	Solid	3050B	
LCSSRM 600-100979/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-100979/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-1	ECO-8 (0.5-2)	Total/NA	Solid	6010B	100979
600-69484-4	SDA-3A (0.0-0.5)	Total/NA	Solid	6010B	100979
600-69484-8	SDA-4A (0.0-0.5)	Total/NA	Solid	6010B	100979
600-69484-12	BS3 (1-2)	Total/NA	Solid	6010B	100979
600-69484-15	2013-CUFT-3 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-15 DU	2013-CUFT-3 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-15 MS	2013-CUFT-3 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-15 MSD	2013-CUFT-3 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-19	2013-CUFT-9 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-23	2013-CUFT-8 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-27	2013-CUFT-4 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-31	2013-CUFT-5 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-35	2013-CUFT-6 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-39	2013-CUFT-7 (0-0.5)	Total/NA	Solid	6010B	100979
600-69484-43	Dup 1	Total/NA	Solid	6010B	100979
600-69484-44	ECO-6 (0.5-2)	Total/NA	Solid	6010B	100979
LCSSRM 600-100979/2-A	Lab Control Sample	Total/NA	Solid	6010B	100979
MB 600-100979/1-A	Method Blank	Total/NA	Solid	6010B	100979

General Chemistry

Leach Batch: 100953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-15	2013-CUFT-3 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-19	2013-CUFT-9 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-23	2013-CUFT-8 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-27	2013-CUFT-4 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-31	2013-CUFT-5 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-35	2013-CUFT-6 (0-0.5)	Soluble	Solid	DI Leach	

General Chemistry (Continued)

Leach Batch: 100953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-39	2013-CUFT-7 (0-0.5)	Soluble	Solid	DI Leach	
600-69484-43	Dup 1	Soluble	Solid	DI Leach	
LCS 600-100953/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 600-100953/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 100954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-1	ECO-8 (0.5-2)	Total/NA	Solid	Moisture	
600-69484-4	SDA-3A (0.0-0.5)	Total/NA	Solid	Moisture	
600-69484-8	SDA-4A (0.0-0.5)	Total/NA	Solid	Moisture	
600-69484-12	BS3 (1-2)	Total/NA	Solid	Moisture	
600-69484-15	2013-CUFT-3 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-19	2013-CUFT-9 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-23	2013-CUFT-8 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-27	2013-CUFT-4 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-31	2013-CUFT-5 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-35	2013-CUFT-6 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-35 DU	2013-CUFT-6 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-39	2013-CUFT-7 (0-0.5)	Total/NA	Solid	Moisture	
600-69484-43	Dup 1	Total/NA	Solid	Moisture	
600-69484-44	ECO-6 (0.5-2)	Total/NA	Solid	Moisture	

Analysis Batch: 100976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-15	2013-CUFT-3 (0-0.5)	Soluble	Solid	9056	100953
600-69484-19	2013-CUFT-9 (0-0.5)	Soluble	Solid	9056	100953
600-69484-23	2013-CUFT-8 (0-0.5)	Soluble	Solid	9056	100953
600-69484-27	2013-CUFT-4 (0-0.5)	Soluble	Solid	9056	100953
600-69484-31	2013-CUFT-5 (0-0.5)	Soluble	Solid	9056	100953
600-69484-35	2013-CUFT-6 (0-0.5)	Soluble	Solid	9056	100953
600-69484-39	2013-CUFT-7 (0-0.5)	Soluble	Solid	9056	100953
600-69484-43	Dup 1	Soluble	Solid	9056	100953
LCS 600-100953/2-A	Lab Control Sample	Soluble	Solid	9056	100953
MB 600-100953/1-A	Method Blank	Soluble	Solid	9056	100953

Client Sample ID: ECO-8 (0.5-2)

Lab Sample ID: 600-69484-1

Date Collected: 03/04/13 10:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU

Client Sample ID: SDA-3A (0.0-0.5)

Lab Sample ID: 600-69484-4

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:26	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU

Client Sample ID: SDA-4A (0.0-0.5)

Lab Sample ID: 600-69484-8

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:35	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU

Client Sample ID: BS3 (1-2)

Lab Sample ID: 600-69484-12

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:38	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU

Client Sample ID: 2013-CUFT-3 (0-0.5)

Lab Sample ID: 600-69484-15

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:40	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		10	100976	03/05/13 22:52	SUP	TAL HOU

Client Sample ID: 2013-CUFT-9 (0-0.5)

Lab Sample ID: 600-69484-19

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:50	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		10	100976	03/06/13 00:02	SUP	TAL HOU

Client Sample ID: 2013-CUFT-8 (0-0.5)

Lab Sample ID: 600-69484-23

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:52	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		10	100976	03/06/13 00:20	SUP	TAL HOU

Client Sample ID: 2013-CUFT-4 (0-0.5)

Lab Sample ID: 600-69484-27

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 63.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		10	100976	03/06/13 00:37	SUP	TAL HOU

Client Sample ID: 2013-CUFT-5 (0-0.5)

Lab Sample ID: 600-69484-31

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 12:57	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		1	100976	03/06/13 01:12	SUP	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-1

Client Sample ID: 2013-CUFT-6 (0-0.5)

Lab Sample ID: 600-69484-35

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 13:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		2	100976	03/06/13 01:30	SUP	TAL HOU

Client Sample ID: 2013-CUFT-7 (0-0.5)

Lab Sample ID: 600-69484-39

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 13:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		1	100976	03/06/13 01:47	SUP	TAL HOU

Client Sample ID: Dup 1

Lab Sample ID: 600-69484-43

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 13:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU
Soluble	Leach	DI Leach			100953	03/05/13 14:30	SUP	TAL HOU
Soluble	Analysis	9056		2	100976	03/06/13 02:05	SUP	TAL HOU

Client Sample ID: ECO-6 (0.5-2)

Lab Sample ID: 600-69484-44

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			100979	03/06/13 08:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	101016	03/06/13 13:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	100954	03/05/13 15:40	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead, Cadmium
C.
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-8 (0.5-2)	3.4.13	1000	S	4oz	—	1	X												HOLD
2	ECO-8 (2-4)		1002			—	1	X												HOLD
3	ECO-8 (4-5)		1004			—	1	X												
4	SDA-3A (0.0-0.5)								X											HOLD
5	SDA-3A (0.5-2)								X											HOLD
6	SDA-3A (2-4)								X											HOLD
7	SDA-3A (4-5)								X											
8	SDA-4A (0.0-0.5)								X											HOLD
9	SDA-4A (0.5-2)								X											HOLD
10	SDA-4A (2-4)								X											HOLD

Shipment Method: Airbill No.: Required Turnaround: 1 day

Relinquished by: Carolyn Section	Date 3.4.13	Relinquished by: M McCrae	Date 3/4/13	Relinquished by:	Date		
Company Name: PBW	Time 1529	Company Name: TAL	Time 1930	Company Name:	Time		
Received by: M McCrae	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13		
Company Name: TAL	Time 1529	Company Name:	Time	Company Name: TAL	Time 0846		

6/11/2013

Page 29 of 34

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienna	Invoice Attn	
Address:	2201 Double Creek Dr Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	SDA-4A (4-5)	3.4.13		S	4oz	—	1		X											HOLD
2	BS3 ⊕ (1-2)							X												
3	BS3 (2-4)							X												HOLD
4	BS3 (4-5)							X												HOLD
5	2013-CUFT-3(0-0.5)						1		X	X										
6	2013-CUFT-3(0.5-2)								X	X										HOLD
7	2013-CUFT-3(2-4)								X	X										HOLD
8	2013-CUFT-3(4-5)								X	X										HOLD
9	2013-CUFT-9(0-0.5)								X	X										
10	2013-CUFT-9(0.5-2)	↓		↓	↓	↓	↓		X	X										HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by: M McCarver	Date 3/4/13	Relinquished by:	Date
Company Name: PBW	Time 1529	Company Name: TAH	Time 1730	Company Name:	Time
Received by: M McCarver	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13
Company Name: TAH	Time 1529	Company Name:	Time	Company Name: TA	Time 0846

6/11/2013

TestAmerica

- [ ] TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- [x] TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- [ ] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- [ ] TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- [ ] TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- [ ] Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienna	Invoice Attn	
Address:	2201 Double Creek Dr. Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CUFT-9 (2-4)	3.4.13		S	4oz	—	1		X	X										HOLD
2	2013-CUFT-9 (4-5)								X	X										HOLD
3	2013-CUFT-8 (0-0.5)								X	X										
4	2013-CUFT-8 (0.5-2)								X	X										HOLD
5	2013-CUFT-8 (2-4)								X	X										HOLD
6	2013-CUFT-8 (4-5)								X	X										HOLD
7	2013-CUFT-4 (0-0.5)								X	X										
8	2013-CUFT-4 (0.5-2)								X	X										HOLD
9	2013-CUFT-4 (2-4)								X	X										HOLD
10	2013-CUFT-4 (4-5)								X	X										HOLD

Shipment Method: Airbill No.: Required Turnaround: 1 day

Relinquished by: Carolyn Seaton	Date 3.4.13	Relinquished by: McCune	Date 3/4/13	Relinquished by:	Date	Relinquished by:	Date
Company Name: PBW	Time 1529	Company Name: TA	Time 1730	Company Name:	Time	Company Name:	Time
Received by: McCune	Date 3/4/13	Received by:	Date	Received by:	Date	Received by:	Date 03/05/13
Company Name: TA	Time 1537	Company Name:	Time	Company Name: TA	Time	Company Name:	Time 0246

6/11/2013

TestAmerica

- [ ] TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- [x] TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- [ ] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- [ ] TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- [ ] TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- [ ] Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Ste. 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512. 671. 3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CUFT-5(0-0.5)	3.4.13		S	4oz	—	1		X	X										
2	2013-CUFT-5(0.5-2)								X	X										HOLD
3	2013-CUFT-5(2-4)								X	X										HOLD
4	2013-CUFT-5(4-5)								X	X										HOLD
5	2013-CUFT-6(0-0.5)								X	X										
6	2013-CUFT-6(0.5-2)								X	X										HOLD
7	2013-CUFT-6(2-4)								X	X										HOLD
8	2013-CUFT-6(4-5)								X	X										HOLD
9	2013-CUFT-7(0-0.5)								X	X										
10	2013-CUFT-7(0.5-2)								X	X										HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by: M McCann	Date 3/4/13	Relinquished by:	Date		
Company Name: PBW	Time 1539	Company Name: TAL	Time 1730	Company Name:	Time		
Received by: M McCann	Date 3/4/13	Received by:	Date	Received by: [illegible]	Date 0846		
Company Name: TAL	Time 1529	Company Name:	Time	Company Name: TA	Time 03/05/13		

6/11/2013

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Suite 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512-671-3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CHFT-7 (2-4)	3.4.13		S	4oz	—	1		X	X										HOLD
2	2013-CHFT-7 (4-5)								X	X										HOLD
3	Dup 2								X	X										
4	ECO-6 (0.5-2)							X												
5	ECO-6 (2-4)							X												HOLD
6	ECO-6 (4-5)							X												HOLD
7																				
8																				
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by:	Date 3/4/13	Relinquished by:	Date		
Company Name: PBW	Time 1529	Company Name: TA	Time 1930	Company Name:	Time		
Received by:	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13		
Company Name: TA	Time 1529	Company Name:	Time	Company Name: TA	Time 0846		

6/11/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-1

Login Number: 69484

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69484-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
3/25/2013 5:59:49 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 24

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69484-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/25/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69484-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recoveries in samples 69484-9 MS and MSD were above acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69484-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69484-2

Comments
See attached email for additional analysis requested.

Receipt
The samples were received on 3/5/2013 8:46 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 2 coolers at receipt time were 1.3º C and 2.2º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-69484-9 DU), (600-69484-9 MS), (600-69484-9 MSD), 2013-CUFT-7 (0.5-2) (600-69484-40), BS3 (2-4) (600-69484-13), SDA-4A (0.5-2) (600-69484-9).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69484-9	SDA-4A (0.5-2)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-13	BS3 (2-4)	Solid	03/04/13 00:00	03/05/13 08:46
600-69484-40	2013-CUFT-7 (0.5-2)	Solid	03/04/13 00:00	03/05/13 08:46

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Client Sample ID: SDA-4A (0.5-2)

Lab Sample ID: 600-69484-9
Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 76.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	69.6	b	0.612	0.128	mg/Kg	☼	03/07/13 11:10	03/07/13 16:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	76		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: BS3 (2-4)

Lab Sample ID: 600-69484-13
Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 73.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	40.2	b	0.655	0.137	mg/Kg	☼	03/07/13 11:10	03/07/13 16:13	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	73		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: 2013-CUFT-7 (0.5-2)

Lab Sample ID: 600-69484-40
Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 67.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	267	b	0.706	0.148	mg/Kg	☼	03/07/13 11:10	03/07/13 16:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	67		1.0	1.0	%			03/07/13 11:33	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Qualifiers

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101117/1-A
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101117

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.1550	J	0.500	0.105	mg/Kg		03/07/13 11:10	03/07/13 16:00	1

Lab Sample ID: LCSSRM 600-101117/2-A
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101117

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	76.28		mg/Kg		99.2	81.3 - 118.7		

Lab Sample ID: 600-69484-9 MS
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SDA-4A (0.5-2)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	69.6	b	64.2	165.2	N	mg/Kg	☼	149	75 - 125		

Lab Sample ID: 600-69484-9 MSD
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SDA-4A (0.5-2)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	69.6	b	60.6	192.3	N	mg/Kg	☼	202	75 - 125	15	20

Lab Sample ID: 600-69484-9 DU
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SDA-4A (0.5-2)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	69.6	b	61.98		mg/Kg	☼	12	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 101117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-9	SDA-4A (0.5-2)	Total/NA	Solid	3050B	
600-69484-9 DU	SDA-4A (0.5-2)	Total/NA	Solid	3050B	
600-69484-9 MS	SDA-4A (0.5-2)	Total/NA	Solid	3050B	
600-69484-9 MSD	SDA-4A (0.5-2)	Total/NA	Solid	3050B	
600-69484-13	BS3 (2-4)	Total/NA	Solid	3050B	
600-69484-40	2013-CUFT-7 (0.5-2)	Total/NA	Solid	3050B	
LCSSRM 600-101117/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101117/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-9	SDA-4A (0.5-2)	Total/NA	Solid	6010B	101117
600-69484-9 DU	SDA-4A (0.5-2)	Total/NA	Solid	6010B	101117
600-69484-9 MS	SDA-4A (0.5-2)	Total/NA	Solid	6010B	101117
600-69484-9 MSD	SDA-4A (0.5-2)	Total/NA	Solid	6010B	101117
600-69484-13	BS3 (2-4)	Total/NA	Solid	6010B	101117
600-69484-40	2013-CUFT-7 (0.5-2)	Total/NA	Solid	6010B	101117
LCSSRM 600-101117/2-A	Lab Control Sample	Total/NA	Solid	6010B	101117
MB 600-101117/1-A	Method Blank	Total/NA	Solid	6010B	101117

General Chemistry

Analysis Batch: 101121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69484-9	SDA-4A (0.5-2)	Total/NA	Solid	Moisture	
600-69484-13	BS3 (2-4)	Total/NA	Solid	Moisture	
600-69484-40	2013-CUFT-7 (0.5-2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Client Sample ID: SDA-4A (0.5-2)

Lab Sample ID: 600-69484-9

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: BS3 (2-4)

Lab Sample ID: 600-69484-13

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:13	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: 2013-CUFT-7 (0.5-2)

Lab Sample ID: 600-69484-40

Date Collected: 03/04/13 00:00
Matrix: Solid
Date Received: 03/05/13 08:46
Percent Solids: 67.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:16	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69484-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica

- ☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- ☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- ☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- ☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- ☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- ☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead, Cadmium
C.
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-8 (0.5-2)	3.4.13	1000	S	4oz	—	1	X												
2	ECO-8 (2-4)		1002			—	1	X												HOLD
3	ECO-8 (4-5)		1004			—	1	X												HOLD
4	SDA-3A (0.0-0.5)								X											
5	SDA-3A (0.5-2)								X											HOLD
6	SDA-3A (2-4)								X											HOLD
7	SDA-3A (4-5)								X											HOLD
8	SDA-4A (0.0-0.5)								X											
9	SDA-4A (0.5-2)								X											HOLD
10	SDA-4A (2-4)								X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by: M McCrae	Date 3/4/13	Relinquished by:	Date
Company Name: PBW	Time 1529	Company Name: TAL	Time 1930	Company Name:	Time
Received by: M McCrae	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13
Company Name: TAL	Time 1530	Company Name:	Time	Company Name: TAL	Time 0846

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	SDA-4A (4-5)	3.4.13		S	4oz	—	1		X											HOLD
2	BS3 (1-2)							X												
3	BS3 (2-4)							X												HOLD
4	BS3 (4-5)							X												HOLD
5	2013-CUFT-3(0-0.5)						1		X	X										
6	2013-CUFT-3(0.5-2)								X	X										HOLD
7	2013-CUFT-3(2-4)								X	X										HOLD
8	2013-CUFT-3(4-5)								X	X										HOLD
9	2013-CUFT-9(0-0.5)								X	X										
10	2013-CUFT-9(0.5-2)								X	X										HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by: M McCarver	Date 3/4/13	Relinquished by:	Date
Company Name: PBW	Time 1529	Company Name: TAH	Time 1730	Company Name:	Time
Received by: M McCarver	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13
Company Name: TAH	Time 1529	Company Name:	Time	Company Name: TA	Time 0846

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienna	Invoice Attn	
Address:	2201 Double Creek Dr. Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CUFT-9 (2-4)	3.4.13		S	4oz	—	1		X	X										HOLD
2	2013-CUFT-9 (4-5)								X	X										HOLD
3	2013-CUFT-8 (0-0.5)								X	X										
4	2013-CUFT-8 (0.5-2)								X	X										HOLD
5	2013-CUFT-8 (2-4)								X	X										HOLD
6	2013-CUFT-8 (4-5)								X	X										HOLD
7	2013-CUFT-4 (0-0.5)								X	X										
8	2013-CUFT-4 (0.5-2)								X	X										HOLD
9	2013-CUFT-4 (2-4)								X	X										HOLD
10	2013-CUFT-4 (4-5)								X	X										HOLD

Shipment Method: Airbill No.: Required Turnaround: 1 day

Relinquished by: Carolyn Seaton	Date 3.4.13	Relinquished by: McCune	Date 3/4/13	Relinquished by:	Date	Relinquished by:	Date
Company Name: PBW	Time 1529	Company Name: TA	Time 1730	Company Name:	Time	Company Name:	Time
Received by: McCune	Date 3/4/13	Received by:	Date	Received by:	Date	Received by:	Date 03/05/13
Company Name: TA	Time 1529	Company Name:	Time	Company Name: TA	Time	Company Name:	Time 0246

3/25/2013

TestAmerica

- ☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- ☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- ☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- ☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- ☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- ☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Ste. 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CUFT-5(0-0.5)	3.4.13		S	4oz	—	1		X	X										
2	2013-CUFT-5(0.5-2)								X	X										HOLD
3	2013-CUFT-5(2-4)								X	X										HOLD
4	2013-CUFT-5(4-5)								X	X										HOLD
5	2013-CUFT-6(0-0.5)								X	X										
6	2013-CUFT-6(0.5-2)								X	X										HOLD
7	2013-CUFT-6(2-4)								X	X										HOLD
8	2013-CUFT-6(4-5)								X	X										HOLD
9	2013-CUFT-7(0-0.5)								X	X										
10	2013-CUFT-7(0.5-2)								X	X										HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by: MMcCann	Date 3/4/13	Relinquished by:	Date		
Company Name: PBW	Time 1539	Company Name: TAL	Time 1530	Company Name:	Time		
Received by: MMcCann	Date 3/4/13	Received by:	Date	Received by:	Date 0846		
Company Name: TAL	Time 1529	Company Name:	Time	Company Name: TA	Time 03/05/13		

3/25/2013

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr Suite 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512-671-3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D.
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-CHFT-7 (2-4)	3.4.13		S	4oz	—	1		X	X										HOLD
2	2013-CHFT-7 (4-5)								X	X										HOLD
3	Dup 2								X	X										
4	ECO-6 (0.5-2)							X												
5	ECO-6 (2-4)							X												HOLD
6	ECO-6 (4-5)							X												HOLD
7																				
8																				
9																				
10																				

Shipment Method: Airbill No.: Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.4.13	Relinquished by:	Date 3/4/13	Relinquished by:	Date		
Company Name: PBW	Time 1529	Company Name: TA	Time 1930	Company Name:	Time		
Received by:	Date 3/4/13	Received by:	Date	Received by:	Date 03/05/13		
Company Name: TA	Time 1529	Company Name:	Time	Company Name: TA	Time 0846		

3/25/2013

Kudchadkar, Sachin

From: Will Vienne [will.vienne@pbwllc.com]
Sent: Thursday, March 07, 2013 8:24 AM
To: Kudchadkar, Sachin
Cc: Upton, Cathy; Eric Pastor; Roberta Russell
Subject: RE: Files from 600-69484-1 Exide Recycling Center, Frisco TX Projec

Sachin,

Please analyze the following samples currently on hold for lead:

- SDA-4A(0.5-2)
- BS3(2-4)
- 2013-CUFT-7(0.5-2)

Thanks,

William Vienne, P.G.
Project Hydrogeologist

Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664
Office (512) 671-3434
Cell (512) 466-9074

From: Upton, Cathy [mailto:cathy.upton@testamericainc.com]
Sent: Wednesday, March 06, 2013 2:47 PM
To: Eric Pastor; Roberta Russell; Will Vienne
Subject: Files from 600-69484-1 Exide Recycling Center, Frisco TX Projec

CATHY L UPTON

TestAmerica Houston
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 713.690.4444
www.testamericainc.com

Reference: [141711]
Attachments: 1

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69484-2

Login Number: 69484

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69563-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/12/2013 10:53:01 AM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 20
Method Summary 21
Sample Summary 22
Client Sample Results 23
Definitions/Glossary 31
Surrogate Summary 32
QC Sample Results 33
Default Detection Limits 48
QC Association Summary 50
Lab Chronicle 54
Certification Summary 60
Chain of Custody 61
Receipt Checklists 68

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69563-1rev

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/12/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-69563
Reviewer Name: BDG	Prep Batch Number(s): 101064 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-69563
Reviewer Name: BDG	Prep Batch Number(s): 101064 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-69563
Reviewer Name: BDG	Prep Batch Number(s): 101064 - pH

ER #[1]	DESCRIPTION
1	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.
2	The laboratory selected another client's sample to perform as the DUP.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563
Reviewer Name: TWR	Prep Batch Number(s): 600-101040, 101055- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563
Reviewer Name: TWR	Prep Batch Number(s): 600-101040, 101055- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			6
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563
Reviewer Name: TWR	Prep Batch Number(s): 600-101040, 101055- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blanks for batches 101040 and 101055. The levels of detection are below the recommended reporting limit and the appropriate flags have been applied.
2	The cadmium recoveries in samples 69563-18 MS and 69563-60 MS, the lead recoveries in samples 69563-18 MS/MSD and 69563-25 MS/MSD and the selenium recovery in sample 69563-60 MS were outside acceptance limits due to matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
3	The lead RPD between samples 69563-18 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
4	The lead and arsenic RPDs between samples 69563-18 and 69563-18 MD, the lead RPD between samples 69563-25 and 69563-25 MD and between samples 69563-60 and 69563-60 MD were above acceptance limits due to the non-homogenous nature of the samples.
5	The lead SDLs were elevated in samples 69563- 9, 39 and 42 due to the dilution necessary to bring this analyte to within linear dynamic range.
6	The lead recovery in sample 69563-18 PDS was below acceptance limits due to matrix interference. The lead percent differences between samples 69563-18 and 69563-18 SD as well as between 69563-60 and 69563-60 SD were above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/14/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69563
Reviewer Name: TTD	Prep Batch Number(s): 600-100975 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		2
		Were MS/MSD RPDs within laboratory QC limits?			X		2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/14/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-69563
Reviewer Name: TTD	Prep Batch Number(s): 600-100975 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/14/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-69563
Reviewer Name: TTD	Prep Batch Number(s): 600-100975 - SV

ER #[1]	DESCRIPTION
1	The laboratory control sample (LCS) exceeded control limits for 3-Nitroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The laboratory control sample (LCS) exceeded control limits for Benzidine and 3,3-Dichlorobenzidine. Benzidine and 3,3-Dichlorobenzidine have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.
2	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/07/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69563-1
Reviewer Name: RJV	Prep Batch Number(s): 600-100982- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/07/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69563-1
Reviewer Name: RJV	Prep Batch Number(s): 600-100982- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/07/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-69563-1
Reviewer Name: RJV	Prep Batch Number(s): 600-100982- TX1005

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Quality Control Report
Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	10/18/2012
Date Prepared:	10/11/2012
Lab Sample ID:	600-90857_18-a
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	8.35	1.08	16.67
N-Nitrosodimethyalamine	30.71	16.7	11.97	16.67
Aniline	2.98	8.35	2.33	16.67
Phenol	4.24	8.35	7.91	16.67
bis(2-Chloroethyl)ether	1.65	8.35	7.29	16.67
2-Chlorophenol	1.97	8.35	7.54	16.67
1,3-Dichlorobenzene	1.54	8.35	7.19	16.67
1,4-Dichlorobenzene	2.25	8.35	6.84	16.67
1,2-Dichlorobenzene	3.02	8.35	7.29	16.67
Benzyl alcohol	5.83	16.7	9.50	16.67
2-Methylphenol	3.23	8.35	6.07	16.67
m&p-Cresols	2.79	8.35	4.59	33.33
bis (2-Chloroisopropyl) ether	8.84	16.7	13.41	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	6.29	16.67
Hexachloroethane	2.31	8.35	8.47	16.67
Nitrobenzene	2.96	8.35	7.35	16.67
Isophorone	5	8.35	6.03	16.67
2-Nitrophenol	3.89	8.35	3.94	16.67
Benzoic acid	32.76	33.4	220.80	83.33
2,4-Dimethylphenol	8.58	16.7	9.79	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	5.19	16.67
2,4-Dichlorophenol	8.58	16.7	9.48	16.67
1,2,4-Trichlorobenzene	2.1	8.35	7.92	16.67
Naphthalene	1.35	8.35	6.35	16.67
4-Chloroaniline	5.82	8.35	3.69	16.67
Hexachlorobutadiene	1.92	8.35	5.91	16.67
4-Chloro-3-methylphenol	15.58	16.7	8.00	16.67
2-Methylnaphthalene	2.74	8.35	5.53	16.67
1-Methylnaphthalene	1.57	8.35	6.53	16.67
Hexachlorocyclopentadiene	4.61	8.35	14.08	16.67
2,4,6-Trichlorophenol	2.68	8.35	5.54	16.67
2,4,5-Trichlorophenol	10.01	16.7	8.68	16.67
2-Chloronaphthalene	1.21	8.35	6.26	16.67
2-Nitroaniline	4.89	8.35	4.10	16.67
Dimethylphthalate	4.89	8.35	5.80	16.67
1,4 Dinitrobenzene	16.67	8.35	14.23	16.67
1,3- Dinitorbenzene	2.96	8.35	13.00	16.67
1,2-Dinitrobenzene	16.67	8.35	4.73	16.67
Acenaphthylene	5	8.35	6.86	16.67

2,6-Dinitrotoluene	2.95	8.35	8.78	16.67
3-Nitroaniline	7.15	8.35	3.09	16.67
Acenapthene	1.44	8.35	6.03	16.67
Dibenzofuran	1.78	8.35	6.15	16.67
2,4-Dinitrotoluene	3.61	8.35	6.10	16.67
2,3,4,6-Tetrachlorophenol	16.67	16.7	15.95	16.67
Diethylphthalate	8.43	16.7	11.50	16.67
4-Chlorophenyl-phenylether	1.8	8.35	6.79	16.67
Fluorene	2.36	8.35	5.57	16.67
4-Nitroaniline	11.15	16.7	5.63	16.67
4,6-Dinitro-2-Methylphenol	4.98	16.7	15.38	16.67
N-Nitrosodiphenylamine	1.89	8.35	5.94	16.67
Diphenylamine	1.94	8.35	4.69	16.67
1,2-Diphenylhydrazine	1.62	8.35	5.61	16.67
Azobenzene	1.85	8.35	5.14	16.67
4-Bromophenyl-phenylether	2.84	8.35	6.26	16.67
Hexachlorobenzene	1.52	8.35	6.89	16.67
Phenanthrene	4.95	8.35	6.76	16.67
Anthracene	1.28	8.35	6.66	16.67
Carbazole	3.12	8.35	6.16	16.67
Di-n-butylphthalate	2.59	8.35	6.08	16.67
Fluoranthene	3.11	8.35	6.58	16.67
Pyrene	1.83	8.35	7.09	16.67
Butylbenzylphthalate	6.19	16.7	9.35	66.68
3,3'-Dichlorobenzidene	10.16	16.7	6.12	16.67
Benzo(a)anthracene	1.38	8.35	6.93	16.67
bis(2-Ethylhexl)phthalate	5.37	16.7	10.49	66.68
Chrysene	1.02	8.35	10.06	16.67
Di-n-octylphthalate	1.9	8.35	3.61	66.68
Benzo(b)fluoranthene	1.72	8.35	3.95	16.67
Benzo(k)fluoranthene	1.49	8.35	8.45	16.67
Benzo(a)pyrene	1.61	8.35	5.20	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	14.82	16.67
Dibenz(a,h)anthracene	3.63	8.35	2.38	16.67
Benzo(g,h,i)perylene	5.07	16.7	12.37	16.67

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	10/22/2012
Date Prepared:	10/15/2012
Data File:	600-91191/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	20	27.03	25
>C12-C28	4.06	20	27.46	25
Total C6-C35	7.48	40	54.49	25

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69563-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69563-1

Comments
The report was revised on 04/12/13 to update the SV checklist.

Receipt
The samples were received on 3/6/2013 10:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 3.7º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-69563-18 DU), (600-69563-25 DU), (600-69563-25 MS), (600-69563-25 MSD), (600-69563-60 DU), (600-69563-60 MS), (600-69563-60 MSD), 2012-FWCS-1 (2.5-4) (600-69563-37), 2012-FWCS-1 (4-5) (600-69563-38), 2012-FWCS-1A (1-2) (600-69563-39), 2012-FWCS-1A (2-4) (600-69563-40), 2013-FWFS-1A (2-4) (600-69563-33), 2013-FWFS-1A (4-5) (600-69563-34), 2013-MW10-1 (0-0.5) (600-69563-18), 2013-MW10-1 (0-0.5) MS (600-69563-18 MS), 2013-MW10-1 (0-0.5) MSD (600-69563-18 MSD), 2013-MW10-2 (0-0.5) (600-69563-14), 2013-MW10-3 (0-0.5) (600-69563-9), 2013-RO-1 (0-0.5) (600-69563-50), 2013-RO-2 (0-0.5) (600-69563-55), Dup 2 (600-69563-13), Dup 3 (600-69563-42), ECO-9 (0.5-2) (600-69563-1), MW-23 (0-0.5) (600-69563-3), MW-24 (0-0.5) (600-69563-60), MW-27 (0-1) (600-69563-29), MW-29 (2.5-4) (600-69563-35), MW-29 (4-5) (600-69563-36), SCC-10 (0.5-2) (600-69563-43), SCC-10A (0-0.5) (600-69563-46), SCC-3 (0.5-2) (600-69563-22), SCC-3A (0-0.5) (600-69563-25).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
9045C	pH	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69563-1	ECO-9 (0.5-2)	Solid	03/04/13 15:30	03/06/13 10:12
600-69563-3	MW-23 (0-0.5)	Solid	03/05/13 08:15	03/06/13 10:12
600-69563-7	2013-BSA-7 (0-2)	Solid	03/05/13 08:30	03/06/13 10:12
600-69563-8	2013-BSA-6 (0-2)	Solid	03/05/13 08:44	03/06/13 10:12
600-69563-9	2013-MW10-3 (0-0.5)	Solid	03/05/13 09:07	03/06/13 10:12
600-69563-13	Dup 2	Solid	03/05/13 09:09	03/06/13 10:12
600-69563-14	2013-MW10-2 (0-0.5)	Solid	03/05/13 09:42	03/06/13 10:12
600-69563-18	2013-MW10-1 (0-0.5)	Solid	03/05/13 09:42	03/06/13 10:12
600-69563-22	SCC-3 (0.5-2)	Solid	03/05/13 10:10	03/06/13 10:12
600-69563-25	SCC-3A (0-0.5)	Solid	03/05/13 10:30	03/06/13 10:12
600-69563-29	MW-27 (0-1)	Solid	03/05/13 10:45	03/06/13 10:12
600-69563-33	2013-FWFS-1A (2-4)	Solid	03/05/13 11:40	03/06/13 10:12
600-69563-34	2013-FWFS-1A (4-5)	Solid	03/05/13 11:41	03/06/13 10:12
600-69563-35	MW-29 (2.5-4)	Solid	03/05/13 11:51	03/06/13 10:12
600-69563-36	MW-29 (4-5)	Solid	03/05/13 11:52	03/06/13 10:12
600-69563-37	2012-FWCS-1 (2.5-4)	Solid	03/05/13 13:20	03/06/13 10:12
600-69563-38	2012-FWCS-1 (4-5)	Solid	03/05/13 13:21	03/06/13 10:12
600-69563-39	2012-FWCS-1A (1-2)	Solid	03/05/13 13:25	03/06/13 10:12
600-69563-40	2012-FWCS-1A (2-4)	Solid	03/05/13 13:26	03/06/13 10:12
600-69563-42	Dup 3	Solid	03/05/13 13:28	03/06/13 10:12
600-69563-43	SCC-10 (0.5-2)	Solid	03/05/13 13:34	03/06/13 10:12
600-69563-46	SCC-10A (0-0.5)	Solid	03/05/13 14:07	03/06/13 10:12
600-69563-50	2013-RO-1 (0-0.5)	Solid	03/05/13 14:26	03/06/13 10:12
600-69563-55	2013-RO-2 (0-0.5)	Solid	03/05/13 14:40	03/06/13 10:12
600-69563-60	MW-24 (0-0.5)	Solid	03/05/13 14:16	03/06/13 10:12

Client Sample ID: ECO-9 (0.5-2)

Lab Sample ID: 600-69563-1
Date Collected: 03/04/13 15:30
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 93.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	412	b	0.498	0.104	mg/Kg	☼	03/06/13 13:58	03/07/13 10:29	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	94		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: MW-23 (0-0.5)

Lab Sample ID: 600-69563-3
Date Collected: 03/05/13 08:15
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 86.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.50		0.288	0.0295	mg/Kg	☼	03/06/13 13:58	03/07/13 10:33	1
Lead	1280	b	0.575	0.121	mg/Kg	☼	03/06/13 13:58	03/07/13 10:33	1
Arsenic	11.2		1.15	0.251	mg/Kg	☼	03/06/13 13:58	03/07/13 10:33	1
Selenium	0.298	U	2.30	0.298	mg/Kg	☼	03/06/13 13:58	03/07/13 10:33	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.0100	0.0100	SU			03/06/13 16:00	1
Percent Moisture	14		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	86		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-BSA-7 (0-2)

Lab Sample ID: 600-69563-7
Date Collected: 03/05/13 08:30
Matrix: Solid
Date Received: 03/06/13 10:12

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.0100	0.0100	SU			03/06/13 16:00	1

Client Sample ID: 2013-BSA-6 (0-2)

Lab Sample ID: 600-69563-8
Date Collected: 03/05/13 08:44
Matrix: Solid
Date Received: 03/06/13 10:12

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.0100	0.0100	SU			03/06/13 16:00	1

Client Sample ID: 2013-MW10-3 (0-0.5)

Lab Sample ID: 600-69563-9
Date Collected: 03/05/13 09:07
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 90.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	18.8		0.256	0.0263	mg/Kg	☼	03/06/13 13:58	03/07/13 10:37	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3920	b	5.13	1.07	mg/Kg	☼	03/06/13 13:58	03/07/13 14:19	10

Client Sample ID: 2013-MW10-3 (0-0.5)

Lab Sample ID: 600-69563-9

Date Collected: 03/05/13 09:07
Matrix: Solid
Date Received: 03/06/13 10:12

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	90		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: Dup 2

Lab Sample ID: 600-69563-13

Date Collected: 03/05/13 09:09
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 87.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	13.6		0.286	0.0293	mg/Kg	☼	03/06/13 13:58	03/07/13 10:41	1
Lead	1520	b	0.571	0.120	mg/Kg	☼	03/06/13 13:58	03/07/13 10:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	88		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-MW10-2 (0-0.5)

Lab Sample ID: 600-69563-14

Date Collected: 03/05/13 09:42
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 81.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.25		0.305	0.0313	mg/Kg	☼	03/06/13 13:58	03/07/13 10:45	1
Lead	1200	b	0.610	0.128	mg/Kg	☼	03/06/13 13:58	03/07/13 10:45	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	81		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-MW10-1 (0-0.5)

Lab Sample ID: 600-69563-18

Date Collected: 03/05/13 09:42
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 80.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.578		0.297	0.0305	mg/Kg	☼	03/06/13 13:58	03/07/13 10:49	1
Lead	202	b	0.594	0.125	mg/Kg	☼	03/06/13 13:58	03/07/13 10:49	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	81		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: SCC-3 (0.5-2)

Lab Sample ID: 600-69563-22

Date Collected: 03/05/13 10:10

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	535	b	0.581	0.122	mg/Kg	☼	03/06/13 13:58	03/07/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	84		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: SCC-3A (0-0.5)

Lab Sample ID: 600-69563-25

Date Collected: 03/05/13 10:30

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 80.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140	b	0.601	0.126	mg/Kg	☼	03/06/13 13:58	03/07/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	80		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: MW-27 (0-1)

Lab Sample ID: 600-69563-29

Date Collected: 03/05/13 10:45

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 78.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00184	U	0.0212	0.00184	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Acenaphthylene	0.00127	U	0.0212	0.00127	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Anthracene	0.00163	U	0.0212	0.00163	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzidine	0.0115	U *	0.106	0.0115	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzo[a]anthracene	0.00176	U	0.0212	0.00176	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzo[b]fluoranthene	0.00219	U	0.0212	0.00219	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzo[k]fluoranthene	0.00190	U	0.0212	0.00190	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzo[g,h,i]perylene	0.00646	U	0.0212	0.00646	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzo[a]pyrene	0.00205	U	0.0212	0.00205	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Bis(2-chloroethoxy)methane	0.00181	U	0.0212	0.00181	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Bis(2-chloroethyl)ether	0.00210	U	0.0212	0.00210	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Bis(2-ethylhexyl) phthalate	0.00684	U	0.0850	0.00684	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Bromophenyl phenyl ether	0.00362	U	0.0212	0.00362	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Butyl benzyl phthalate	0.00789	U	0.0850	0.00789	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Chloroaniline	0.00742	U	0.0212	0.00742	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Chloronaphthalene	0.00154	U	0.0212	0.00154	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Chlorophenyl phenyl ether	0.00229	U	0.0212	0.00229	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Carbazole	0.00398	U	0.0212	0.00398	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Chrysene	0.00130	U	0.0212	0.00130	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Di-n-butyl phthalate	0.00330	U	0.0850	0.00330	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Dibenz(a,h)anthracene	0.00463	U	0.0212	0.00463	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Dibenzofuran	0.00227	U	0.0212	0.00227	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
1,2-Dichlorobenzene	0.00385	U	0.0212	0.00385	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
1,3-Dichlorobenzene	0.00196	U	0.0212	0.00196	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1

Client Sample ID: MW-27 (0-1)
Date Collected: 03/05/13 10:45
Date Received: 03/06/13 10:12

Lab Sample ID: 600-69563-29
Matrix: Solid
Percent Solids: 78.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00287	U	0.0212	0.00287	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
3,3'-Dichlorobenzidine	0.0130	U *	0.0212	0.0130	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Diethyl phthalate	0.0107	U	0.0850	0.0107	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Dimethyl phthalate	0.00623	U	0.0850	0.00623	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4-Dinitrotoluene	0.00460	U	0.0212	0.00460	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Di-n-octyl phthalate	0.00242	U	0.0850	0.00242	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Fluoranthene	0.00396	U	0.0212	0.00396	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Fluorene	0.00301	U	0.0212	0.00301	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Hexachlorobenzene	0.00194	U	0.0212	0.00194	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Hexachlorocyclopentadiene	0.00588	U	0.0212	0.00588	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Hexachloroethane	0.00294	U	0.0212	0.00294	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Hexachlorobutadiene	0.00245	U	0.0212	0.00245	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Indeno[1,2,3-cd]pyrene	0.00446	U	0.0212	0.00446	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Isophorone	0.00127	U	0.0212	0.00127	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Methylnaphthalene	0.00349	U	0.0212	0.00349	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Naphthalene	0.00172	U	0.0212	0.00172	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Nitroaniline	0.00623	U	0.0212	0.00623	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
3-Nitroaniline	0.00911	U *	0.0212	0.00911	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Nitroaniline	0.0142	U	0.0212	0.0142	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Nitrobenzene	0.00377	U	0.0212	0.00377	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
N-Nitrosodimethylamine	0.00534	U	0.0212	0.00534	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
N-Nitrosodiphenylamine	0.00241	U	0.0212	0.00241	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
N-Nitrosodi-n-propylamine	0.00283	U	0.0212	0.00283	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Phenanthrene	0.00631	U	0.0212	0.00631	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Pyrene	0.00233	U	0.0212	0.00233	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
1,2,4-Trichlorobenzene	0.00268	U	0.0212	0.00268	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Benzyl alcohol	0.00743	U	0.0212	0.00743	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Chloro-3-methylphenol	0.0199	U	0.0212	0.0199	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Chlorophenol	0.00251	U	0.0212	0.00251	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Methylphenol	0.00412	U	0.0212	0.00412	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
3 & 4 Methylphenol	0.00356	U	0.0425	0.00356	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4-Dichlorophenol	0.00493	U	0.0212	0.00493	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4-Dimethylphenol	0.0109	U	0.0212	0.0109	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4,6-Dinitro-2-methylphenol	0.00635	U	0.0212	0.00635	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4-Dinitrophenol	0.00602	U	0.127	0.00602	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2-Nitrophenol	0.00496	U	0.0212	0.00496	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
4-Nitrophenol	0.00648	U	0.0212	0.00648	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Pentachlorophenol	0.00510	U	0.213	0.00510	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
Phenol	0.00540	U	0.0212	0.00540	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4,5-Trichlorophenol	0.0128	U	0.0212	0.0128	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,4,6-Trichlorophenol	0.00342	U	0.0212	0.00342	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
2,6-Dinitrotoluene	0.00376	U	0.0212	0.00376	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1
bis (2-Chloroisopropyl) ether	0.0113	U	0.0212	0.0113	mg/Kg	☼	03/06/13 07:59	03/07/13 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*75*		*26 - 108*	*03/06/13 07:59*	*03/07/13 14:55*	*1*
Terphenyl-d14	*88*		*56 - 123*	*03/06/13 07:59*	*03/07/13 14:55*	*1*
Nitrobenzene-d5	*71*		*34 - 118*	*03/06/13 07:59*	*03/07/13 14:55*	*1*
2-Fluorophenol	*87*		*23 - 108*	*03/06/13 07:59*	*03/07/13 14:55*	*1*
2-Fluorobiphenyl	*77*		*51 - 109*	*03/06/13 07:59*	*03/07/13 14:55*	*1*

Client Sample ID: MW-27 (0-1)

Lab Sample ID: 600-69563-29

Date Collected: 03/05/13 10:45
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 78.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*34 - 122*	*03/06/13 07:59*	*03/07/13 14:55*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.84	U	12.7	4.84	mg/Kg	☼	03/06/13 08:46	03/06/13 19:40	1
>C12-C28	5.17	U	12.7	5.17	mg/Kg	☼	03/06/13 08:46	03/06/13 19:40	1
>C28-C35	5.17	U	12.7	5.17	mg/Kg	☼	03/06/13 08:46	03/06/13 19:40	1
C6-C35	9.53	U	12.7	9.53	mg/Kg	☼	03/06/13 08:46	03/06/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*70 - 130*	*03/06/13 08:46*	*03/06/13 19:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**400**	**b**	0.592	0.124	mg/Kg	☼	03/06/13 13:58	03/07/13 11:33	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22**		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	**78**		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-FWFS-1A (2-4)

Lab Sample ID: 600-69563-33

Date Collected: 03/05/13 11:40
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 77.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15.0**	**b**	0.591	0.124	mg/Kg	☼	03/06/13 13:58	03/07/13 11:37	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22**		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	**78**		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-FWFS-1A (4-5)

Lab Sample ID: 600-69563-34

Date Collected: 03/05/13 11:41
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 76.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14.9**	**b**	0.622	0.130	mg/Kg	☼	03/06/13 13:58	03/07/13 11:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23**		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	**77**		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: MW-29 (2.5-4)

Lab Sample ID: 600-69563-35
Date Collected: 03/05/13 11:51
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 79.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.56		0.294	0.0302	mg/Kg	☼	03/06/13 13:58	03/07/13 11:45	1
Lead	87.3	b	0.589	0.123	mg/Kg	☼	03/06/13 13:58	03/07/13 11:45	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	79		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: MW-29 (4-5)

Lab Sample ID: 600-69563-36
Date Collected: 03/05/13 11:52
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 79.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0306	U	0.298	0.0306	mg/Kg	☼	03/06/13 13:58	03/07/13 11:56	1
Lead	8.56	b	0.597	0.125	mg/Kg	☼	03/06/13 13:58	03/07/13 11:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	80		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2012-FWCS-1 (2.5-4)

Lab Sample ID: 600-69563-37
Date Collected: 03/05/13 13:20
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 71.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	780	b	0.643	0.135	mg/Kg	☼	03/06/13 13:58	03/07/13 12:00	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	71		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2012-FWCS-1 (4-5)

Lab Sample ID: 600-69563-38
Date Collected: 03/05/13 13:21
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 81.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22.0	b	0.592	0.124	mg/Kg	☼	03/06/13 13:58	03/07/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	81		1.0	1.0	%			03/06/13 12:59	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Client Sample ID: 2012-FWCS-1A (1-2)

Lab Sample ID: 600-69563-39
Date Collected: 03/05/13 13:25
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	115		1.17	0.256	mg/Kg	☼	03/06/13 13:58	03/07/13 12:08	1
Selenium	12.6		2.35	0.304	mg/Kg	☼	03/06/13 13:58	03/07/13 12:08	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19400	b	5.87	1.23	mg/Kg	☼	03/06/13 13:58	03/07/13 14:23	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	84		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2012-FWCS-1A (2-4)

Lab Sample ID: 600-69563-40
Date Collected: 03/05/13 13:26
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 78.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12.4	b	0.602	0.126	mg/Kg	☼	03/06/13 13:58	03/07/13 12:12	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	78		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: Dup 3

Lab Sample ID: 600-69563-42
Date Collected: 03/05/13 13:28
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 80.1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12100	b	5.84	1.22	mg/Kg	☼	03/06/13 13:58	03/07/13 14:27	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	80		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: SCC-10 (0.5-2)

Lab Sample ID: 600-69563-43
Date Collected: 03/05/13 13:34
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 87.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23.5	b	0.558	0.117	mg/Kg	☼	03/06/13 13:58	03/07/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	88		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: SCC-10A (0-0.5)

Lab Sample ID: 600-69563-46
Date Collected: 03/05/13 14:07
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.40		0.318	0.0326	mg/Kg	☼	03/06/13 13:58	03/07/13 12:23	1
Lead	296	b	0.636	0.133	mg/Kg	☼	03/06/13 13:58	03/07/13 12:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	78		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-RO-1 (0-0.5)

Lab Sample ID: 600-69563-50
Date Collected: 03/05/13 14:26
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 81.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.91		0.309	0.0316	mg/Kg	☼	03/06/13 14:58	03/07/13 12:50	1
Lead	1170	b	0.617	0.129	mg/Kg	☼	03/06/13 14:58	03/07/13 12:50	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	81		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: 2013-RO-2 (0-0.5)

Lab Sample ID: 600-69563-55
Date Collected: 03/05/13 14:40
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 78.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.26		0.312	0.0320	mg/Kg	☼	03/06/13 14:58	03/07/13 12:54	1
Lead	811	b	0.624	0.131	mg/Kg	☼	03/06/13 14:58	03/07/13 12:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	79		1.0	1.0	%			03/06/13 12:59	1

Client Sample ID: MW-24 (0-0.5)

Lab Sample ID: 600-69563-60
Date Collected: 03/05/13 14:16
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 83.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0829	J	0.286	0.0293	mg/Kg	☼	03/06/13 14:58	03/07/13 12:58	1
Lead	8.82	b	0.571	0.120	mg/Kg	☼	03/06/13 14:58	03/07/13 12:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/06/13 12:59	1
Percent Solids	83		1.0	1.0	%			03/06/13 12:59	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
F	Duplicate RPD exceeds the control limit
U	Analyte was not detected at or above the SDL.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		PHL	TPH	NBZ	2FP	FBP	TBP		
Lab Sample ID	Client Sample ID	(26-108)	(56-123)	(34-118)	(23-108)	(51-109)	(34-122)		
600-69563-29	MW-27 (0-1)	75	88	71	87	77	71		
LCS 600-100975/2-A	Lab Control Sample	87	84	76	77	78	85		
MB 600-100975/1-A	Method Blank	79	81	72	81	77	61		

Surrogate Legend

PHL = Phenol-d6
TPH = Terphenyl-d14
NBZ = Nitrobenzene-d5
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		OTPH							
Lab Sample ID	Client Sample ID	(70-130)							
600-69563-29	MW-27 (0-1)	90							
LCS 600-100982/2-A	Lab Control Sample	95							
MB 600-100982/1-A	Method Blank	90							

Surrogate Legend

OTPH = o-Terphenyl

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-100975/1-A
Matrix: Solid
Analysis Batch: 101162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100975

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acena. hthene	0400188	K	040167	0400188	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Acena. hthylene	0400100	K	040167	0400100	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Anthracene	04001u%	K	040167	04001u%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUdine	040090u	K	040%33	040090u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUbHajpanthracene	040013%	K	040167	040013%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUbHbpl* oranthene	040017u	K	040167	040017u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUbHfjpl* oranthene	0400189	K	040167	0400189	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUbHg,h,ip erylene	0400507	K	040167	0400507	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUbHkjp yrene	0400161	K	040167	0400161	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Bis]u-chloroethoxyfmethane	040018u	K	040167	040018u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Bis]u-chloroethylfether	0400165	K	040167	0400165	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Bis]u-ethylhexylf . hthalate	0400537	K	040667	0400537	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-Bromo. henyl . henyl ether	0400u%8	K	040167	0400u%8	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
B* tyl benUyl . hthalate	0400619	K	040667	0400619	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-Chloroaniline	04005%u	K	040167	04005%u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-Chlorona. hthalene	04001u1	K	040167	04001u1	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-Chloro. henyl . henyl ether	04001%0	K	040167	04001%0	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
CarbaUble	040031u	K	040167	040031u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Chrysene	040010u	K	040167	040010u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Di-n-b* tyl . hthalate	0400u59	K	040667	0400u59	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
DibenUja,hfanthracene	0400363	K	040167	0400363	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
DibenUbz* ran	040017%	K	040167	040017%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
1,u-DichlorobenUene	040030u	K	040167	040030u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
1,3-DichlorobenUene	0400158	K	040167	0400158	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
1,8-DichlorobenUene	0400uu5	K	040167	0400uu5	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
3,3kDichlorobenUdine	04010u	K	040167	04010u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Diethyl . hthalate	0400%83	K	040667	0400%83	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Dimethyl . hthalate	04008%9	K	040667	04008%9	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8-Dinitrotol* ene	0400361	K	040167	0400361	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Di-n-octyl . hthalate	0400190	K	040667	0400190	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Fl* oranthene	0400311	K	040167	0400311	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Fl* orene	0400u36	K	040167	0400u36	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
(exachlorobenUene	040015u	K	040167	040015u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
(exachlorocyclo. entadiene	0400861	K	040167	0400861	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
(exachloroethane	0400u31	K	040167	0400u31	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
(exachlorob* tadiene	040019u	K	040167	040019u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
IndenoH1,u,3-cdp yrene	0400350	K	040167	0400350	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Iso. horone	0400100	K	040167	0400100	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-) ethylna. hthalene	0400u78	K	040167	0400u78	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
' a. hthalene	0400135	K	040167	0400135	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-' itroaniline	04008%9	K	040167	04008%9	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
3-' itroaniline	0400715	K	040167	0400715	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-' itroaniline	040111	K	040167	040111	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
' itrobenUene	0400u96	K	040167	0400u96	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
' -' itrosodimethylamine	0400819	K	040167	0400819	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
' -' itrosodi. henylamine	04001%9	K	040167	04001%9	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
' -' itrosodi-n-. ro. ylamine	0400uuu	K	040167	0400uuu	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Phenanthrene	0400895	K	040167	0400895	mg/2g		03/06/13 07:59	03/07/13 10:5%	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-100975/1-A
Matrix: Solid
Analysis Batch: 101162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100975

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	04001%3	K	040167	04001%3	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
1,u,8-TrichlorobenUene	0400u10	K	040167	0400u10	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
BenUyl alcohol	04005%3	K	040167	04005%3	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-Chloro-3-methyl. henol	040156	K	040167	040156	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-Chloro. henol	0400197	K	040167	0400197	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-) ethyl. henol	04003u3	K	040167	04003u3	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
3 & 8) ethyl. henol	0400u79	K	040333	0400u79	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8-Dichloro. henol	04003%7	K	040167	04003%7	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8-Dimethyl. henol	0400%5%	K	040167	0400%5%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8,6-Dinitro-u-methyl. henol	040089%	K	040167	040089%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8-Dinitro. henol	040087u	K	04100	040087u	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u-' itro. henol	04003%9	K	040167	04003%9	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
8-' itro. henol	040050%	K	040167	040050%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Pentachloro. henol	0400800	K	04167	0400800	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
Phenol	04008u8	K	040167	04008u8	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8,5-Trichloro. henol	040100	K	040167	040100	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,8,6-Trichloro. henol	0400u6%	K	040167	0400u6%	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
u,6-Dinitrotol* ene	0400u95	K	040167	0400u95	mg/2g		03/06/13 07:59	03/07/13 10:5%	1
bis]u-Chloroiso. ro. ylf ether	0400%%8	K	040167	0400%%8	mg/2g		03/06/13 07:59	03/07/13 10:5%	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*75*		*26 - 108*	*03/06/13 07:95*	*03/07/13 10:98*	*1*
4eT henpl-d1y	*81*		*96 - 123*	*03/06/13 07:95*	*03/07/13 10:98*	*1*
NitTobenzene-d9	*72*		*3y - 118*	*03/06/13 07:95*	*03/07/13 10:98*	*1*
2-FluoTor henol	*81*		*23 - 108*	*03/06/13 07:95*	*03/07/13 10:98*	*1*
2-FluoTobir henpl	*77*		*91 - 105*	*03/06/13 07:95*	*03/07/13 10:98*	*1*
2,y,6-4TibTomor henol	*61*		*3y - 122*	*03/06/13 07:95*	*03/07/13 10:98*	*1*

Lab Sample ID: LCS 600-100975/2-A
Matrix: Solid
Analysis Batch: 101162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acena. hthene	04333	04u806		mg/2g		7u	5%- 1u5
Acena. hthylene	04333	04u87%		mg/2g		78	51 - 1uu
Anthracene	04333	04u78u		mg/2g		%u	5u - 1u0
BenUidine	1467	040090u	K M	mg/2g		0	10 - 135
BenUoHapanthracene	04333	04u536		mg/2g		76	89 - 1u8
BenUoHbpl* oranthene	04333	04u731		mg/2g		%u	5%- 130
BenUoHfpl* oranthene	04333	04u6%%		mg/2g		%d	56 - 1u9
BenUoHg,h,ip erylene	04333	04u71u		mg/2g		%d	50 - 180
BenUoHap yrene	04333	04u5u1		mg/2g		76	5%- 1u3
Bis]u-chloroethoxyfmethane	04333	04u507		mg/2g		75	58 - 118
Bis]u-chloroethylfether	04333	04u085		mg/2g		61	88 - 119
Bis]u-ethylhexylf . hthalate	04333	04u7u5		mg/2g		%u	55 - 136
8-Bromo. henyl . henyl ether	04333	04u5%0		mg/2g		77	56 - 1u6
B* tyl benUyl . hthalate	04333	04u76%		mg/2g		%8	83 - 135
8-Chloroaniline	04333	04u930		mg/2g		%%	8u - 1uu

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-100975/2-A
Matrix: Solid
Analysis Batch: 101162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
u-Chlorona. hthalene	0433	04u379		mg/2g		71	50 - 1u3
8-Chloro. henyl . henyl ether	0433	04u395		mg/2g		7u	57 - 1u6
CarbaUble	0433	0430%l		mg/2g		9u	87 - 153
Chrysene	0433	04u607		mg/2g		7%	50 - 1u3
Di-n-b* tyl . hthalate	0433	04u70u		mg/2g		%l	61 - 1u8
DibenUa,hfanthracene	0433	04u999		mg/2g		90	55 - 181
DibenUbz* ran	0433	04u850		mg/2g		73	58 - 119
1,u-DichlorobenUene	0433	04u307		mg/2g		69	57 - 117
1,3-DichlorobenUene	0433	04u380		mg/2g		70	50 - 1u%
1,8-DichlorobenUene	0433	04u8u5		mg/2g		73	59 - 117
3,3kDichlorobenUdine	0433	040l0u	K M	mg/2g		0	1%- 17u
Diethyl . hthalate	0433	04u686		mg/2g		79	55 - 1u6
Dimethyl . hthalate	0433	04u87u		mg/2g		78	5%- 1u6
u,8-Dinitrotol* ene	0433	04u685		mg/2g		79	53 - 1u3
Di-n-octyl . hthalate	0433	04u795		mg/2g		%8	85 - 135
Fl* oranthene	0433	04u983		mg/2g		%%	56 - 1u3
Fl* orene	0433	04u839		mg/2g		73	5u - 187
(exachlorobenUene	0433	04u6u8		mg/2g		79	59 - 1uu
(exachlorocyclo. entadiene	0433	04u075		mg/2g		6u	33 - 119
(exachloroethane	0433	04u305		mg/2g		69	36 - 116
(exachlorob* tadiene	0433	04u8%3		mg/2g		78	89 - 1u3
IndenoH1,u,3-cdp yrene	0433	04u%u0		mg/2g		%5	80 - 187
Iso. horone	0433	04u8u7		mg/2g		73	89 - 115
u-) ethylna. hthalene	0433	04u317		mg/2g		69	58 - 130
' a. hthalene	0433	04u76%		mg/2g		%3	5u - 117
u-' itroaniline	0433	04u%33		mg/2g		%5	89 - 189
3-' itroaniline	0433	048%33	M	mg/2g		185	85 - 133
8-' itroaniline	0433	04u789		mg/2g		%u	8%- 13%
' itrobenUene	0433	04u38%		mg/2g		70	53 - 1u3
' -' itrosodimethylamine	0433	04u676		mg/2g		%0	81 - 13%
' -' itrosodi. henylamine	0433	04u713		mg/2g		%l	87 - 1u7
' -' itrosodi-n-. ro. ylamine	0433	04u815		mg/2g		7u	83 - 180
Phenanthrene	0433	04u598		mg/2g		7%	55 - 1u0
Pyrene	0433	04u671		mg/2g		%0	8%- 131
1,u,8-TrichlorobenUene	0433	04u338		mg/2g		70	58 - 115
BenUyl alcohol	0433	04u%9u		mg/2g		%7	u5 - 181
8-Chloro-3-methyl. henol	0433	04u653		mg/2g		%0	58 - 119
u-Chloro. henol	0433	04u580		mg/2g		76	58 - 119
u-) ethyl. henol	0433	04u889		mg/2g		73	85 - 11%
3 & 8) ethyl. henol	0433	04u591		mg/2g		7%	88 - 1u6
u,8-Dichloro. henol	0433	04u501		mg/2g		75	58 - 119
u,8-Dimethyl. henol	0433	04u398		mg/2g		7u	36 - 1u8
8,6-Dinitro-u-methyl. henol	0433	04u00%		mg/2g		60	38 - 1u8
u,8-Dinitro. henol	0433	0436l5		mg/2g		10%	u5 - 117
u-' itro. henol	0433	04u513		mg/2g		75	50 - 11u
8-' itro. henol	0433	0430%8		mg/2g		93	u0 - 13u
Pentachloro. henol	0433	04u063		mg/2g		6u	17 - 1u8
Phenol	0433	04u611		mg/2g		7%	33 - 1uu

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-100975/2-A
Matrix: Solid
Analysis Batch: 101162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
u,8,5-Trichloro. henol	04333	04u763		mg/2g		%3	59 - 136
u,8,6-Trichloro. henol	04333	04u335		mg/2g		70	59 - 138
u,6-Dinitrotol* ene	04333	04u600		mg/2g		7%	53 - 116
bis]u-Chloroiso. ro. ylf ether	04333	04u58u		mg/2g		76	51 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d6	*87*		*26 - 108*
4eTr henpl-d1y	*8y*		*96 - 123*
NitTobenzene-d9	*76*		*3y - 118*
2-FluoTor henol	*77*		*23 - 108*
2-FluoTobir henpl	*78*		*91 - 105*
2,y,6-4TbTomor henol	*89*		*3y - 122*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-100982/1-A
Matrix: Solid
Analysis Batch: 101086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100982

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C1u	34%0	K	1040	34%0	mg/2g		03/06/13 0%86	03/06/13 1u:19	1
NC1u-Cu%	8406	K	1040	8406	mg/2g		03/06/13 0%86	03/06/13 1u:19	1
NCu%C35	8406	K	1040	8406	mg/2g		03/06/13 0%86	03/06/13 1u:19	1
C6-C35	748%	K	1040	748%	mg/2g		03/06/13 0%86	03/06/13 1u:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-4eTr henpl	*50*		*70 - 130*	*03/06/13 08:y6*	*03/06/13 12:15*	*1*

Lab Sample ID: LCS 600-100982/2-A
Matrix: Solid
Analysis Batch: 101086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C1u	u50	u0740		mg/2g		%3	75 - 1u5
NC1u-Cu%	u50	uu%4%		mg/2g		9u	75 - 1u5
C6-C35	500	83547		mg/2g		%7	75 - 1u5

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-4eTr henpl	*59*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101040/1-A
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101040

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmi* m	04u56	K	04u50	04u56	mg/2g		03/06/13 13:5%	03/07/13 10:uu	1
Lead	0413 65	J	0450 0	0410 5	mg/2g		03/06/13 13:5%	03/07/13 10:uu	1
Arsenic	04u1%	K	140 0	04u1%	mg/2g		03/06/13 13:5%	03/07/13 10:uu	1
Seleni* m	04u59	K	u40 0	04u59	mg/2g		03/06/13 13:5%	03/07/13 10:uu	1

Lab Sample ID: LCSSRM 600-101040/2-A
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmi* m	103	9645 6		mg/2g		934%	%34 - 1154 5
Lead	764 9	784 13		mg/2g		964 8	%143 - 11%4 7
Arsenic	16%	16%4 8		mg/2g		1004u	%34 3 - 1174 3
Seleni* m	1u6	1u34u		mg/2g		974 7	%04u - 1u04 6

Lab Sample ID: 600-69563-18 MS
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: 2013-MW10-1 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmi* m	0457%		u%4u	u0498	'	mg/2g	☼	7u	75 - 1u5
Lead	u0u	b	564 8	1834 8	'	mg/2g	☼	-108	75 - 1u5
Arsenic	%467		564 8	5548 8		mg/2g	☼	%3	75 - 1u5
Seleni* m	0430%		564 8	834uu		mg/2g	☼	77	75 - 1u5

Lab Sample ID: 600-69563-18 MSD
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: 2013-MW10-1 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmi* m	0457%		u%46	uu413		mg/2g	☼	75	75 - 1u5	6	u0
Lead	u0u	b	574 3	1%345	'	mg/2g	☼	-33	75 - 1u5	u5	u0
Arsenic	%467		574 3	5740 1		mg/2g	☼	%8	75 - 1u5	3	u0
Seleni* m	0430%		574 3	8546u		mg/2g	☼	%0	75 - 1u5	5	u0

Lab Sample ID: 600-69563-25 MS
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: SCC-3A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmi* m	0491%		u%47	u3419		mg/2g	☼	7%	75 - 1u5
Lead	180	b	574 8	1504 8	'	mg/2g	☼	1%	75 - 1u5
Arsenic	1049		574 8	604%%		mg/2g	☼	%7	75 - 1u5
Seleni* m	0431 1		574 8	8%488		mg/2g	☼	%8	75 - 1u5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-69563-25 MSD
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: SCC-3A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmi* m	0491%		u%49	u8411		mg/2g	☼	%0	75 - 1u5	8	u0
Lead	180	b	5749	15149	'	mg/2g	☼	u0	75 - 1u5	1	u0
Arsenic	1049		5749	6347%		mg/2g	☼	91	75 - 1u5	5	u0
Seleni* m	04311		5749	50490		mg/2g	☼	%%	75 - 1u5	5	u0

Lab Sample ID: 600-69563-18 DU
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: 2013-MW10-1 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmi* m	0457%		0461u8		mg/2g	☼	6	u0
Lead	u0u	b	u%94%	F	mg/2g	☼	36	u0
Arsenic	%467		1049	F	mg/2g	☼	uu	u0
Seleni* m	0430%		04311	K	mg/2g	☼	' C	u0

Lab Sample ID: 600-69563-25 DU
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: SCC-3A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101040

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmi* m	0491%		0467%3		mg/2g	☼	30	u0
Lead	180	b	10%45	F	mg/2g	☼	u5	u0
Arsenic	1049		1u4u7		mg/2g	☼	1u	u0
Seleni* m	04311		04305	K	mg/2g	☼	' C	u0

Lab Sample ID: MB 600-101055/1-A
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101055

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmi* m	040u56	K	04u50	040u56	mg/2g		03/06/13 18:5%	03/07/13 1u:83	1
Lead	0415 60	J	04500	0411 05	mg/2g		03/06/13 18:5%	03/07/13 1u:83	1
Arsenic	04u1%	K	1400	04u1%	mg/2g		03/06/13 18:5%	03/07/13 1u:83	1
Seleni* m	04u59	K	u400	04u59	mg/2g		03/06/13 18:5%	03/07/13 1u:83	1

Lab Sample ID: LCSSRM 600-101055/2-A
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101055

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmi* m	103	95406		mg/2g		9u43	%346 - 1154 5
Lead	7649	6941u		mg/2g		%949	%143 - 11%4 7
Arsenic	16%	16043		mg/2g		9545	%343 - 1174 3
Seleni* m	1u6	1184%		mg/2g		9141	%04u - 1u04 6

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-69563-60 MS
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: MW-24 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmi* m	040%u9	J	3040	uu436	'	mg/2g	☼	78	75 - 1u5
Lead	%#%u	b	6040	5643 0		mg/2g	☼	79	75 - 1u5
Arsenic	%#79		6040	564%1		mg/2g	☼	%0	75 - 1u5
Seleni* m	04u96		6040	8846 5	'	mg/2g	☼	78	75 - 1u5

Lab Sample ID: 600-69563-60 MSD
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: MW-24 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmi* m	040%u9	J	u947	uu4%7		mg/2g	☼	77	75 - 1u5	u	u0
Lead	%#%u	b	5948	5845 1		mg/2g	☼	77	75 - 1u5	3	u0
Arsenic	%#79		5948	6045%		mg/2g	☼	%7	75 - 1u5	6	u0
Seleni* m	04u96		5948	8541%		mg/2g	☼	76	75 - 1u5	1	u0

Lab Sample ID: 600-69563-60 DU
Matrix: Solid
Analysis Batch: 101143

Client Sample ID: MW-24 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101055

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmi* m	040%u9	J	041u61	J	mg/2g	☼	81	u0
Lead	%#%u	b	1345 5	F	mg/2g	☼	81	u0
Arsenic	%#79		1040 7		mg/2g	☼	18	u0
Seleni* m	04u96		04u%%	K	mg/2g	☼	' C	u0

Method: 9045C - pH

Lab Sample ID: LCS 600-101064/1
Matrix: Solid
Analysis Batch: 101064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
. (	7400	74000		SK		100	99 - 101

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69563-1 DU
Matrix: Solid
Analysis Batch: 101029

Client Sample ID: ECO-9 (0.5-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent) oist* re	64u		646		>		6	u0
Percent Solids	98		93		>		048	u0

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 600-69563-A-34 DU
Matrix: Solid
Analysis Batch: 101029

Client Sample ID: 600-69563-A-34 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent) oist* re				u3		>					
Percent Solids				77		>					

Lab Sample ID: 600-69563-A-50 DU
Matrix: Solid
Analysis Batch: 101029

Client Sample ID: 600-69563-A-50 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent) oist* re				u0		>					
Percent Solids				%0		>					

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Method Blank - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101040/1-A	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1022	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.1365	J	0.105	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/07/2013 1026	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	96.56	93.8	83.6 - 115.5	
Lead	76.9	74.13	96.4	81.3 - 118.7	
Arsenic	168	168.4	100.2	83.3 - 117.3	
Selenium	126	123.2	97.7	80.2 - 120.6	

Post Digestion Spike - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	03/07/2013 1227	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.578		29.7	23.40	77	75 - 125	
Lead	202		59.4	245.2	72	75 - 125	W
Arsenic	8.67		59.4	59.96	86	75 - 125	
Selenium	0.308	U	59.4	48.73	82	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1056			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1110			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	72	75	75 - 125	6	20	N	
Lead	-104	-33	75 - 125	25	20	N	N
Arsenic	83	84	75 - 125	3	20		
Selenium	77	80	75 - 125	5	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	03/07/2013 1126			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1129			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	78	80	75 - 125	4	20		
Lead	18	20	75 - 125	1	20	N	N
Arsenic	87	91	75 - 125	5	20		
Selenium	84	88	75 - 125	5	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-18	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/07/2013 1056		
Prep Date:	03/06/2013 1358		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69563-18
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/07/2013 1110
Prep Date:	03/06/2013 1358
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	0.578		28.2	28.6	20.94	N	22.13	
Lead	202		56.4	57.3	143.4	N	183.5	N
Arsenic	8.67		56.4	57.3	55.34		57.01	
Selenium	0.308	U	56.4	57.3	43.22		45.62	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101040

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-25	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	03/07/2013 1126		
Prep Date:	03/06/2013 1358		
Leach Date:	N/A		

MSD Lab Sample ID:	600-69563-25
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	03/07/2013 1129
Prep Date:	03/06/2013 1358
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	0.918		28.7	28.9	23.19		24.11	
Lead	140		57.4	57.9	150.4	N	151.9	N
Arsenic	10.9		57.4	57.9	60.88		63.78	
Selenium	0.311	U	57.4	57.9	48.44		50.90	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Duplicate - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/07/2013 1053	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.578		0.6124	6	20	
Lead	202		289.8	36	20	F
Arsenic	8.67		10.79	22	20	F
Selenium	0.308	U	0.311	NC	20	U

Duplicate - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-25	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	03/07/2013 1122	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.918		0.6783	30	20	
Lead	140		108.5	25	20	F
Arsenic	10.9		12.27	12	20	
Selenium	0.311	U	0.305	NC	20	U

Serial Dilution - Batch: 600-101040

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-18	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101040	Lab File ID:	B030713
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	03/07/2013 1231	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1358				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.578		0.5287	NC	10	J
Lead	202		238.0	18	10	*
Arsenic	8.67		10.05	NC	10	
Selenium	0.308	U	1.54	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Method Blank - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-101055/1-A	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1243	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.1560	J	0.105	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	03/07/2013 1246	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	95.06	92.3	83.6 - 115.5	
Lead	76.9	69.12	89.9	81.3 - 118.7	
Arsenic	168	160.4	95.5	83.3 - 117.3	
Selenium	126	114.8	91.1	80.2 - 120.6	

Post Digestion Spike - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1344	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.0829	J	28.6	22.17	77	75 - 125	
Lead	8.82		57.1	52.68	77	75 - 125	
Arsenic	8.79		57.1	58.11	86	75 - 125	
Selenium	0.296	U	57.1	45.10	79	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101055

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/07/2013 1306			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

MSD Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	03/07/2013 1310			Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	74	77	75 - 125	2	20	N	
Lead	79	77	75 - 125	3	20		
Arsenic	80	87	75 - 125	6	20		
Selenium	74	76	75 - 125	1	20	N	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-101055

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-69563-60	Units:	mg/Kg	MSD Lab Sample ID:	600-69563-60
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/07/2013 1306			Analysis Date:	03/07/2013 1310
Prep Date:	03/06/2013 1458			Prep Date:	03/06/2013 1458
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual
Cadmium	0.0829	J	30.0	29.7	22.36	N	22.87
Lead	8.82		60.0	59.4	56.40		54.51
Arsenic	8.79		60.0	59.4	56.81		60.58
Selenium	0.296	U	60.0	59.4	44.65	N	45.18

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Duplicate - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	03/07/2013 1302	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.0829	J	0.1261	41	20	J
Lead	8.82		13.35	41	20	F
Arsenic	8.79		10.07	14	20	
Selenium	0.296	U	0.288	NC	20	U

Serial Dilution - Batch: 600-101055

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-69563-60	Analysis Batch:	600-101143	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-101055	Lab File ID:	B030713
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/07/2013 1348	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/06/2013 1458				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.0829	J	0.147	NC	10	U
Lead	8.82		11.29	28	10	*
Arsenic	8.79		10.84	NC	10	
Selenium	0.296	U	1.48	NC	10	U

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1,2,4-Trichlorobenzene	0.0167	0.00210	mg/Kg	8270C LL
1,2-Dichlorobenzene	0.0167	0.00302	mg/Kg	8270C LL
1,3-Dichlorobenzene	0.0167	0.00154	mg/Kg	8270C LL
1,4-Dichlorobenzene	0.0167	0.00225	mg/Kg	8270C LL
2,4,5-Trichlorophenol	0.0167	0.0100	mg/Kg	8270C LL
2,4,6-Trichlorophenol	0.0167	0.00268	mg/Kg	8270C LL
2,4-Dichlorophenol	0.0167	0.00387	mg/Kg	8270C LL
2,4-Dimethylphenol	0.0167	0.00858	mg/Kg	8270C LL
2,4-Dinitrophenol	0.100	0.00472	mg/Kg	8270C LL
2,4-Dinitrotoluene	0.0167	0.00361	mg/Kg	8270C LL
2,6-Dinitrotoluene	0.0167	0.00295	mg/Kg	8270C LL
2-Chloronaphthalene	0.0167	0.00121	mg/Kg	8270C LL
2-Chlorophenol	0.0167	0.00197	mg/Kg	8270C LL
2-Methylnaphthalene	0.0167	0.00274	mg/Kg	8270C LL
2-Methylphenol	0.0167	0.00323	mg/Kg	8270C LL
2-Nitroaniline	0.0167	0.00489	mg/Kg	8270C LL
2-Nitrophenol	0.0167	0.00389	mg/Kg	8270C LL
3 & 4 Methylphenol	0.0333	0.00279	mg/Kg	8270C LL
3,3'-Dichlorobenzidine	0.0167	0.0102	mg/Kg	8270C LL
3-Nitroaniline	0.0167	0.00715	mg/Kg	8270C LL
4,6-Dinitro-2-methylphenol	0.0167	0.00498	mg/Kg	8270C LL
4-Bromophenyl phenyl ether	0.0167	0.00284	mg/Kg	8270C LL
4-Chloro-3-methylphenol	0.0167	0.0156	mg/Kg	8270C LL
4-Chloroaniline	0.0167	0.00582	mg/Kg	8270C LL
4-Chlorophenyl phenyl ether	0.0167	0.00180	mg/Kg	8270C LL
4-Nitroaniline	0.0167	0.0112	mg/Kg	8270C LL
4-Nitrophenol	0.0167	0.00508	mg/Kg	8270C LL
Acenaphthene	0.0167	0.00144	mg/Kg	8270C LL
Acenaphthylene	0.0167	0.00100	mg/Kg	8270C LL
Anthracene	0.0167	0.00128	mg/Kg	8270C LL
Benzidine	0.0833	0.00902	mg/Kg	8270C LL
Benzo[a]anthracene	0.0167	0.00138	mg/Kg	8270C LL
Benzo[a]pyrene	0.0167	0.00161	mg/Kg	8270C LL
Benzo[b]fluoranthene	0.0167	0.00172	mg/Kg	8270C LL
Benzo[g,h,i]perylene	0.0167	0.00507	mg/Kg	8270C LL
Benzo[k]fluoranthene	0.0167	0.00149	mg/Kg	8270C LL
Benzyl alcohol	0.0167	0.00583	mg/Kg	8270C LL
bis (2-Chloroisopropyl) ether	0.0167	0.00884	mg/Kg	8270C LL
Bis(2-chloroethoxy)methane	0.0167	0.00142	mg/Kg	8270C LL
Bis(2-chloroethyl)ether	0.0167	0.00165	mg/Kg	8270C LL
Bis(2-ethylhexyl) phthalate	0.0667	0.00537	mg/Kg	8270C LL
Butyl benzyl phthalate	0.0667	0.00619	mg/Kg	8270C LL
Carbazole	0.0167	0.00312	mg/Kg	8270C LL
Chrysene	0.0167	0.00102	mg/Kg	8270C LL
Dibenz(a,h)anthracene	0.0167	0.00363	mg/Kg	8270C LL
Dibenzofuran	0.0167	0.00178	mg/Kg	8270C LL
Diethyl phthalate	0.0667	0.00843	mg/Kg	8270C LL
Dimethyl phthalate	0.0667	0.00489	mg/Kg	8270C LL
Di-n-butyl phthalate	0.0667	0.00259	mg/Kg	8270C LL
Di-n-octyl phthalate	0.0667	0.00190	mg/Kg	8270C LL
Fluoranthene	0.0167	0.00311	mg/Kg	8270C LL
Fluorene	0.0167	0.00236	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
Hexachlorobenzene	0.0167	0.00152	mg/Kg	8270C LL
Hexachlorobutadiene	0.0167	0.00192	mg/Kg	8270C LL
Hexachlorocyclopentadiene	0.0167	0.00461	mg/Kg	8270C LL
Hexachloroethane	0.0167	0.00231	mg/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	0.0167	0.00350	mg/Kg	8270C LL
Isophorone	0.0167	0.00100	mg/Kg	8270C LL
Naphthalene	0.0167	0.00135	mg/Kg	8270C LL
Nitrobenzene	0.0167	0.00296	mg/Kg	8270C LL
N-Nitrosodimethylamine	0.0167	0.00419	mg/Kg	8270C LL
N-Nitrosodi-n-propylamine	0.0167	0.00222	mg/Kg	8270C LL
N-Nitrosodiphenylamine	0.0167	0.00189	mg/Kg	8270C LL
Pentachlorophenol	0.167	0.00400	mg/Kg	8270C LL
Phenanthrene	0.0167	0.00495	mg/Kg	8270C LL
Phenol	0.0167	0.00424	mg/Kg	8270C LL
Pyrene	0.0167	0.00183	mg/Kg	8270C LL

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	10.0	4.06	mg/Kg	TX 1005
>C28-C35	10.0	4.06	mg/Kg	TX 1005
C6-C12	10.0	3.80	mg/Kg	TX 1005
C6-C35	10.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Selenium	2.00	0.259	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
pH	0.0100	0.0100	SU	9045C
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS Semi VOA

Prep Batch: 100975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-29	MW-27 (0-1)	Total/NA	Solid	3550B	
LCS 600-100975/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-100975/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 101162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-29	MW-27 (0-1)	Total/NA	Solid	8270C LL	100975
LCS 600-100975/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	100975
MB 600-100975/1-A	Method Blank	Total/NA	Solid	8270C LL	100975

GC Semi VOA

Prep Batch: 100982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-29	MW-27 (0-1)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-100982/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-100982/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 101086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-29	MW-27 (0-1)	Total/NA	Solid	TX 1005	100982
LCS 600-100982/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	100982
MB 600-100982/1-A	Method Blank	Total/NA	Solid	TX 1005	100982

Metals

Prep Batch: 101040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-1	ECO-9 (0.5-2)	Total/NA	Solid	3050B	
600-69563-3	MW-23 (0-0.5)	Total/NA	Solid	3050B	
600-69563-9	2013-MW10-3 (0-0.5)	Total/NA	Solid	3050B	
600-69563-9 - DL	2013-MW10-3 (0-0.5)	Total/NA	Solid	3050B	
600-69563-13	Dup 2	Total/NA	Solid	3050B	
600-69563-14	2013-MW10-2 (0-0.5)	Total/NA	Solid	3050B	
600-69563-18	2013-MW10-1 (0-0.5)	Total/NA	Solid	3050B	
600-69563-18 DU	2013-MW10-1 (0-0.5)	Total/NA	Solid	3050B	
600-69563-18 MS	2013-MW10-1 (0-0.5)	Total/NA	Solid	3050B	
600-69563-18 MSD	2013-MW10-1 (0-0.5)	Total/NA	Solid	3050B	
600-69563-22	SCC-3 (0.5-2)	Total/NA	Solid	3050B	
600-69563-25	SCC-3A (0-0.5)	Total/NA	Solid	3050B	
600-69563-25 DU	SCC-3A (0-0.5)	Total/NA	Solid	3050B	
600-69563-25 MS	SCC-3A (0-0.5)	Total/NA	Solid	3050B	
600-69563-25 MSD	SCC-3A (0-0.5)	Total/NA	Solid	3050B	
600-69563-29	MW-27 (0-1)	Total/NA	Solid	3050B	
600-69563-33	2013-FWFS-1A (2-4)	Total/NA	Solid	3050B	
600-69563-34	2013-FWFS-1A (4-5)	Total/NA	Solid	3050B	
600-69563-35	MW-29 (2.5-4)	Total/NA	Solid	3050B	
600-69563-36	MW-29 (4-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 101040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-37	2012-FWCS-1 (2.5-4)	Total/NA	Solid	3050B	
600-69563-38	2012-FWCS-1 (4-5)	Total/NA	Solid	3050B	
600-69563-39	2012-FWCS-1A (1-2)	Total/NA	Solid	3050B	
600-69563-39 - DL	2012-FWCS-1A (1-2)	Total/NA	Solid	3050B	
600-69563-40	2012-FWCS-1A (2-4)	Total/NA	Solid	3050B	
600-69563-42 - DL	Dup 3	Total/NA	Solid	3050B	
600-69563-43	SCC-10 (0.5-2)	Total/NA	Solid	3050B	
600-69563-46	SCC-10A (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-101040/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101040/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 101055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-50	2013-RO-1 (0-0.5)	Total/NA	Solid	3050B	
600-69563-55	2013-RO-2 (0-0.5)	Total/NA	Solid	3050B	
600-69563-60	MW-24 (0-0.5)	Total/NA	Solid	3050B	
600-69563-60 DU	MW-24 (0-0.5)	Total/NA	Solid	3050B	
600-69563-60 MS	MW-24 (0-0.5)	Total/NA	Solid	3050B	
600-69563-60 MSD	MW-24 (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-101055/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101055/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-1	ECO-9 (0.5-2)	Total/NA	Solid	6010B	101040
600-69563-3	MW-23 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-9	2013-MW10-3 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-9 - DL	2013-MW10-3 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-13	Dup 2	Total/NA	Solid	6010B	101040
600-69563-14	2013-MW10-2 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-18	2013-MW10-1 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-18 DU	2013-MW10-1 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-18 MS	2013-MW10-1 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-18 MSD	2013-MW10-1 (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-22	SCC-3 (0.5-2)	Total/NA	Solid	6010B	101040
600-69563-25	SCC-3A (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-25 DU	SCC-3A (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-25 MS	SCC-3A (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-25 MSD	SCC-3A (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-29	MW-27 (0-1)	Total/NA	Solid	6010B	101040
600-69563-33	2013-FWFS-1A (2-4)	Total/NA	Solid	6010B	101040
600-69563-34	2013-FWFS-1A (4-5)	Total/NA	Solid	6010B	101040
600-69563-35	MW-29 (2.5-4)	Total/NA	Solid	6010B	101040
600-69563-36	MW-29 (4-5)	Total/NA	Solid	6010B	101040
600-69563-37	2012-FWCS-1 (2.5-4)	Total/NA	Solid	6010B	101040
600-69563-38	2012-FWCS-1 (4-5)	Total/NA	Solid	6010B	101040
600-69563-39	2012-FWCS-1A (1-2)	Total/NA	Solid	6010B	101040
600-69563-39 - DL	2012-FWCS-1A (1-2)	Total/NA	Solid	6010B	101040
600-69563-40	2012-FWCS-1A (2-4)	Total/NA	Solid	6010B	101040
600-69563-42 - DL	Dup 3	Total/NA	Solid	6010B	101040
600-69563-43	SCC-10 (0.5-2)	Total/NA	Solid	6010B	101040

Metals (Continued)

Analysis Batch: 101143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-46	SCC-10A (0-0.5)	Total/NA	Solid	6010B	101040
600-69563-50	2013-RO-1 (0-0.5)	Total/NA	Solid	6010B	101055
600-69563-55	2013-RO-2 (0-0.5)	Total/NA	Solid	6010B	101055
600-69563-60	MW-24 (0-0.5)	Total/NA	Solid	6010B	101055
600-69563-60 DU	MW-24 (0-0.5)	Total/NA	Solid	6010B	101055
600-69563-60 MS	MW-24 (0-0.5)	Total/NA	Solid	6010B	101055
600-69563-60 MSD	MW-24 (0-0.5)	Total/NA	Solid	6010B	101055
LCSSRM 600-101040/2-A	Lab Control Sample	Total/NA	Solid	6010B	101040
LCSSRM 600-101055/2-A	Lab Control Sample	Total/NA	Solid	6010B	101055
MB 600-101040/1-A	Method Blank	Total/NA	Solid	6010B	101040
MB 600-101055/1-A	Method Blank	Total/NA	Solid	6010B	101055

General Chemistry

Analysis Batch: 101029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-1	ECO-9 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-1 DU	ECO-9 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-3	MW-23 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-9	2013-MW10-3 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-13	Dup 2	Total/NA	Solid	Moisture	
600-69563-14	2013-MW10-2 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-18	2013-MW10-1 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-18 MS	2013-MW10-1 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-18 MSD	2013-MW10-1 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-22	SCC-3 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-25	SCC-3A (0-0.5)	Total/NA	Solid	Moisture	
600-69563-29	MW-27 (0-1)	Total/NA	Solid	Moisture	
600-69563-33	2013-FWFS-1A (2-4)	Total/NA	Solid	Moisture	
600-69563-34	2013-FWFS-1A (4-5)	Total/NA	Solid	Moisture	
600-69563-35	MW-29 (2.5-4)	Total/NA	Solid	Moisture	
600-69563-36	MW-29 (4-5)	Total/NA	Solid	Moisture	
600-69563-37	2012-FWCS-1 (2.5-4)	Total/NA	Solid	Moisture	
600-69563-38	2012-FWCS-1 (4-5)	Total/NA	Solid	Moisture	
600-69563-39	2012-FWCS-1A (1-2)	Total/NA	Solid	Moisture	
600-69563-40	2012-FWCS-1A (2-4)	Total/NA	Solid	Moisture	
600-69563-42	Dup 3	Total/NA	Solid	Moisture	
600-69563-43	SCC-10 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-46	SCC-10A (0-0.5)	Total/NA	Solid	Moisture	
600-69563-50	2013-RO-1 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-55	2013-RO-2 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-60	MW-24 (0-0.5)	Total/NA	Solid	Moisture	
600-69563-A-34 DU	600-69563-A-34 DU	Total/NA	Solid	Moisture	
600-69563-A-50 DU	600-69563-A-50 DU	Total/NA	Solid	Moisture	

Analysis Batch: 101064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-3	MW-23 (0-0.5)	Total/NA	Solid	9045C	
600-69563-7	2013-BSA-7 (0-2)	Total/NA	Solid	9045C	
600-69563-8	2013-BSA-6 (0-2)	Total/NA	Solid	9045C	

General Chemistry (Continued)

Analysis Batch: 101064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-101064/1	Lab Control Sample	Total/NA	Solid	9045C	

Client Sample ID: ECO-9 (0.5-2)

Lab Sample ID: 600-69563-1

Date Collected: 03/04/13 15:30

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:29	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: MW-23 (0-0.5)

Lab Sample ID: 600-69563-3

Date Collected: 03/05/13 08:15

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:33	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU
Total/NA	Analysis	9045C		1	101064	03/06/13 16:00	KRD	TAL HOU

Client Sample ID: 2013-BSA-7 (0-2)

Lab Sample ID: 600-69563-7

Date Collected: 03/05/13 08:30

Matrix: Solid

Date Received: 03/06/13 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	101064	03/06/13 16:00	KRD	TAL HOU

Client Sample ID: 2013-BSA-6 (0-2)

Lab Sample ID: 600-69563-8

Date Collected: 03/05/13 08:44

Matrix: Solid

Date Received: 03/06/13 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	101064	03/06/13 16:00	KRD	TAL HOU

Client Sample ID: 2013-MW10-3 (0-0.5)

Lab Sample ID: 600-69563-9

Date Collected: 03/05/13 09:07

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:37	DCL	TAL HOU
Total/NA	Prep	3050B	DL		101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101143	03/07/13 14:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: Dup 2

Lab Sample ID: 600-69563-13

Date Collected: 03/05/13 09:09
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-MW10-2 (0-0.5)

Lab Sample ID: 600-69563-14

Date Collected: 03/05/13 09:42
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-MW10-1 (0-0.5)

Lab Sample ID: 600-69563-18

Date Collected: 03/05/13 09:42
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 10:49	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: SCC-3 (0.5-2)

Lab Sample ID: 600-69563-22

Date Collected: 03/05/13 10:10
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: SCC-3A (0-0.5)

Lab Sample ID: 600-69563-25

Date Collected: 03/05/13 10:30
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:18	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: MW-27 (0-1)

Lab Sample ID: 600-69563-29

Date Collected: 03/05/13 10:45
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			100975	03/06/13 07:59	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	101162	03/07/13 14:55	JH	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			100982	03/06/13 08:46	NV	TAL HOU
Total/NA	Analysis	TX 1005		1	101086	03/06/13 19:40	RV	TAL HOU
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:33	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-FWFS-1A (2-4)

Lab Sample ID: 600-69563-33

Date Collected: 03/05/13 11:40
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:37	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-FWFS-1A (4-5)

Lab Sample ID: 600-69563-34

Date Collected: 03/05/13 11:41
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: MW-29 (2.5-4)

Lab Sample ID: 600-69563-35

Date Collected: 03/05/13 11:51
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: MW-29 (4-5)

Lab Sample ID: 600-69563-36

Date Collected: 03/05/13 11:52
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 11:56	DCL	TAL HOU

Client Sample ID: MW-29 (4-5)

Lab Sample ID: 600-69563-36

Date Collected: 03/05/13 11:52

Matrix: Solid

Date Received: 03/06/13 10:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2012-FWCS-1 (2.5-4)

Lab Sample ID: 600-69563-37

Date Collected: 03/05/13 13:20

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:00	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2012-FWCS-1 (4-5)

Lab Sample ID: 600-69563-38

Date Collected: 03/05/13 13:21

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2012-FWCS-1A (1-2)

Lab Sample ID: 600-69563-39

Date Collected: 03/05/13 13:25

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:08	DCL	TAL HOU
Total/NA	Prep	3050B	DL		101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101143	03/07/13 14:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2012-FWCS-1A (2-4)

Lab Sample ID: 600-69563-40

Date Collected: 03/05/13 13:26

Matrix: Solid

Date Received: 03/06/13 10:12

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: Dup 3

Lab Sample ID: 600-69563-42

Date Collected: 03/05/13 13:28
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101143	03/07/13 14:27	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: SCC-10 (0.5-2)

Lab Sample ID: 600-69563-43

Date Collected: 03/05/13 13:34
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: SCC-10A (0-0.5)

Lab Sample ID: 600-69563-46

Date Collected: 03/05/13 14:07
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101040	03/06/13 13:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-RO-1 (0-0.5)

Lab Sample ID: 600-69563-50

Date Collected: 03/05/13 14:26
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101055	03/06/13 14:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:50	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Client Sample ID: 2013-RO-2 (0-0.5)

Lab Sample ID: 600-69563-55

Date Collected: 03/05/13 14:40
Date Received: 03/06/13 10:12

Matrix: Solid
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101055	03/06/13 14:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Client Sample ID: MW-24 (0-0.5)
Date Collected: 03/05/13 14:16
Date Received: 03/06/13 10:12

Lab Sample ID: 600-69563-60
Matrix: Solid
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101055	03/06/13 14:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	101143	03/07/13 12:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101029	03/06/13 12:59	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 600
69563

page 1 of 7

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D. pH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-9(0.5-2)	3.4.13	1530	S	4oz	—	1	X												
2	ECO-9(2-3.9)	↓	1535					X												HOLD
3	MW-23 (0-0.5)	3.5.13	0815						X		X									
4	MW-23 (0.5-2)		0816						X		X									HOLD
5	MW-23 (2-4)		0817						X		X									HOLD
6	MW-23 (4-5)		0818						X		X									HOLD
7	2013-BSA-7(0-2)		0830								X									
8	2013-BSA-6(0-2)		0844								X									
9	2013-MW10-3(0-0.5)		0907						X											
10	2013-MW10-3(0.5-2)	↓	0908	↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date: 3.5.13	Relinquished by:		Date: 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time: 1522	Company Name:	TAL	Time: 1730	Company Name:	Time
Received by:		Date: 3/5/13	Received by:		Date	Received by:	Date: 3/06/13
Company Name:	TAL	Time: 1532	Company Name:		Time	Company Name: TAH	Time: 0935

4/12/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-3(2-4)	3.5.13	0905	S	4oz	—	1		X											HOLD
2	2013-MW10-3(4-5)		0906						X											HOLD
3	Dup 2		0909						X											
4	2013-MW10-2(0-0.5)		0942						X											
5	2013-MW10-2(0.5-2)		0941						X											HOLD
6	2013-MW10-2(2-4)		0940						X											HOLD
7	2013-MW10-2(4-5)		0939						X											HOLD
8	2013-MW10-1(0-0.5)		0942						X											
9	2013-MW10-1(0.5-2)		0941						X											HOLD
10	2013-MW10-1(2-4)		0940						X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAH	1730		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	3/6/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAH	1522			TAH	0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr. Ste. 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512. 671. 3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. TPH
D. ~~P~~AH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-1(4-5)	3.5.13	940	S	4oz	—	1		X											HOLD
2	~~2013~~-SCC-3 (0.5-2)		1010					X												
3	SCC-3 (2-4)		1009					X												HOLD
4	SCC-3(4-5)		1011					X												HOLD
5	SCC-3A (0-0.5)		1030					X												
6	SCC-3A (0.5-2)		1031					X												HOLD
7	SCC-3A (2-4)		1032					X												HOLD
8	SCC-3A(4-5)		1033				↓	X												HOLD
9	MW-27 (0-1)		1045				3	X		X	X									
10	MW-27 (1-2)	↓	1046	↓	↓	↓	3	X		X	X									HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 17:22	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAL	Time 0755

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. TPH
D. PAH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-27 (2-4)	3.5.13	1047	S	4 oz	—	3	X		X	X									HOLD
2	MW-27 (4-5)		1048				3	X		X	X									HOLD
3	2013-FWFS-1A (2-4)		1140				1	X												
4	2013-FWFS-1A (4-5)		1141				1	X												
5	MW-29 (2.5-4)		1151						X											
6	MW-29 (4-5)		1152						X											
7	2012-FWCS-1 (2.5-4)		1320					X												
8	2012-FWCS-1 (4-5)		1321					X												
9	2012-FWCS-1A (1-2)		1325					X												
10	2012-FWCS-1A (2-4)		1326					X												

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 1723	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: STL	Time 0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2012-FWCS-1A(4-5)	3.5.13	1327	S	4oz	—	1	X												
2	Dup c3		1328					X												
3	SCC-10(0.5-2)		1334					X												
4	SCC-10(2-4)		1335					X												HOLD
5	SCC-10(4-5)		1336					X												HOLD
6	SCC-10A(0-0.5)		1407						X											
7	SCC-10A(0.5-2)		1408						X											HOLD
8	SCC-10A(2-4)		1409						X											HOLD
9	SCC-10A(4-5)		1410						X											HOLD
10	2013-RO-1(0-0.5)		1426						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Seaton	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAL	1720		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAL	1522			TAH	0435

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exido	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-RO-1(0.5-1)	3.5.13	1427	S	4oz	—	1		X											HOLD
2	2013-RO-1(1-1.5)		1428						X											HOLD
3	2013-RO-1(1.5-2)		1429						X											HOLD
4	2013-RO-1(2-3)		1430						X											HOLD
5	2013-RO-2(0-0.5)		1440						X											
6	2013-RO-2(0.5-1)		1441						X											HOLD
7	2013-RO-2(1-1.5)		1442						X											HOLD
8	2013-RO-2(1.5-2)		1443						X											HOLD
9	2013-RO-2(2-3)		1444						X											HOLD
10	MW-24(0-0.5)		1416						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	03.5.13	M McConn	3/5/13		
Company Name: PBW	Time 1522	Company Name: TAL	Time 1722	Company Name:	Time
Received by: M McConn	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: THH	Time 0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-24 (0.5-1)	3.5.13	1417	S	4 oz	—	1		X											HOLD
2	MW-24 (1-1.5)	↓	1418	↓	↓	↓	↓		X											HOLD
3	MW-24 (1.5-2)	↓	1419	↓	↓	↓	↓		X											HOLD
4	MW-24 (2-3)	↓	1420	↓	↓	↓	↓		X											HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time 1522	Company Name:	Time 1922	Company Name:	Time
Received by:		Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name:	TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

4/12/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-1

Login Number: 69563

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69563-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
3/27/2013 3:17:06 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 25

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69563-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/26/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101358- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101358- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-2
Reviewer Name: TWR	Prep Batch Number(s): 600-101358- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 69563-23 MS and MSD was outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by acceptable LCS recoveries.
2	The lead RPD between samples 69563-23 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
3	The arsenic and lead RPDs between samples 69563-23 and 69563-23 MD were above acceptance limits due to the non-homogenous nature of the samples.
4	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69563-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69563-2

Comments
No additional comments.

Receipt
The samples were received on 3/6/2013 10:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 2 coolers at receipt time were 3.2º C and 3.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69563-10	2013-MW10-3 (0.5-2)	Solid	03/05/13 09:08	03/06/13 10:12
600-69563-23	SCC-3 (2-4)	Solid	03/05/13 10:09	03/06/13 10:12
600-69563-51	2013-RO-1 (0.5-1)	Solid	03/05/13 14:27	03/06/13 10:12

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Client Sample ID: 2013-MW10-3 (0.5-2)

Lab Sample ID: 600-69563-10

Date Collected: 03/05/13 09:08
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 86.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	208		0.564	0.118	mg/Kg	☼	03/11/13 11:59	03/11/13 16:02	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			03/11/13 10:42	1
Percent Solids	87		1.0	1.0	%			03/11/13 10:42	1

Client Sample ID: SCC-3 (2-4)

Lab Sample ID: 600-69563-23

Date Collected: 03/05/13 10:09
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 85.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1300		0.584	0.122	mg/Kg	☼	03/11/13 11:59	03/11/13 16:05	1
Arsenic	8.99		1.17	0.255	mg/Kg	☼	03/11/13 11:59	03/11/13 16:05	1
Selenium	0.302	U	2.34	0.302	mg/Kg	☼	03/11/13 11:59	03/11/13 16:05	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			03/11/13 10:42	1
Percent Solids	86		1.0	1.0	%			03/11/13 10:42	1

Client Sample ID: 2013-RO-1 (0.5-1)

Lab Sample ID: 600-69563-51

Date Collected: 03/05/13 14:27
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19.8		0.618	0.130	mg/Kg	☼	03/11/13 11:59	03/11/13 16:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/11/13 10:42	1
Percent Solids	78		1.0	1.0	%			03/11/13 10:42	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
N	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101358/1-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101358

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		03/11/13 11:59	03/11/13 15:55	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		03/11/13 11:59	03/11/13 15:55	1
Selenium	0.259	U	2.00	0.259	mg/Kg		03/11/13 11:59	03/11/13 15:55	1

Lab Sample ID: LCSSRM 600-101358/2-A
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101358

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	76.22		mg/Kg		99.1	81.3 - 118.7		
Arsenic			168	173.7		mg/Kg		103.4	83.3 - 117.3		
Selenium			126	115.3		mg/Kg		91.5	80.2 - 120.6		

Lab Sample ID: 600-69563-23 MS
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: SCC-3 (2-4)
Prep Type: Total/NA
Prep Batch: 101358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	1300		54.1	1103	4	mg/Kg	☼	-360	75 - 125		
Arsenic	8.99		54.1	63.22		mg/Kg	☼	100	75 - 125		
Selenium	0.302	U	54.1	47.04		mg/Kg	☼	87	75 - 125		

Lab Sample ID: 600-69563-23 MSD
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: SCC-3 (2-4)
Prep Type: Total/NA
Prep Batch: 101358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1300		55.6	1713	4 N	mg/Kg	☼	748	75 - 125	43	20
Arsenic	8.99		55.6	66.75		mg/Kg	☼	104	75 - 125	5	20
Selenium	0.302	U	55.6	49.27		mg/Kg	☼	89	75 - 125	5	20

Lab Sample ID: 600-69563-23 DU
Matrix: Solid
Analysis Batch: 101385

Client Sample ID: SCC-3 (2-4)
Prep Type: Total/NA
Prep Batch: 101358

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	1300			908.8	F	mg/Kg	☼			35	20
Arsenic	8.99			6.791	F	mg/Kg	☼			28	20
Selenium	0.302	U		0.296	U	mg/Kg	☼			NC	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Selenium	2.00	0.259	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 101358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-10	2013-MW10-3 (0.5-2)	Total/NA	Solid	3050B	
600-69563-23	SCC-3 (2-4)	Total/NA	Solid	3050B	
600-69563-23 DU	SCC-3 (2-4)	Total/NA	Solid	3050B	
600-69563-23 MS	SCC-3 (2-4)	Total/NA	Solid	3050B	
600-69563-23 MSD	SCC-3 (2-4)	Total/NA	Solid	3050B	
600-69563-51	2013-RO-1 (0.5-1)	Total/NA	Solid	3050B	
LCSSRM 600-101358/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101358/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-10	2013-MW10-3 (0.5-2)	Total/NA	Solid	6010B	101358
600-69563-23	SCC-3 (2-4)	Total/NA	Solid	6010B	101358
600-69563-23 DU	SCC-3 (2-4)	Total/NA	Solid	6010B	101358
600-69563-23 MS	SCC-3 (2-4)	Total/NA	Solid	6010B	101358
600-69563-23 MSD	SCC-3 (2-4)	Total/NA	Solid	6010B	101358
600-69563-51	2013-RO-1 (0.5-1)	Total/NA	Solid	6010B	101358
LCSSRM 600-101358/2-A	Lab Control Sample	Total/NA	Solid	6010B	101358
MB 600-101358/1-A	Method Blank	Total/NA	Solid	6010B	101358

General Chemistry

Analysis Batch: 101344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-10	2013-MW10-3 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-23	SCC-3 (2-4)	Total/NA	Solid	Moisture	
600-69563-51	2013-RO-1 (0.5-1)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Client Sample ID: 2013-MW10-3 (0.5-2)

Lab Sample ID: 600-69563-10

Date Collected: 03/05/13 09:08
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101358	03/11/13 11:59	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 16:02	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101344	03/11/13 10:42	AS	TAL HOU

Client Sample ID: SCC-3 (2-4)

Lab Sample ID: 600-69563-23

Date Collected: 03/05/13 10:09
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101358	03/11/13 11:59	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 16:05	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101344	03/11/13 10:42	AS	TAL HOU

Client Sample ID: 2013-RO-1 (0.5-1)

Lab Sample ID: 600-69563-51

Date Collected: 03/05/13 14:27
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101358	03/11/13 11:59	NER	TAL HOU
Total/NA	Analysis	6010B		1	101385	03/11/13 16:14	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	101344	03/11/13 10:42	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 600
69563

page 1 of 7

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D. pH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-9(0.5-2)	3.4.13	1530	S	4oz	—	1	X												
2	ECO-9(2-3.9)	↓	1535					X												HOLD
3	MW-23 (0-0.5)	3.5.13	0815						X		X									
4	MW-23 (0.5-2)		0816						X		X									HOLD
5	MW-23 (2-4)		0817						X		X									HOLD
6	MW-23 (4-5)		0818						X		X									HOLD
7	2013-BSA-7(0-2)		0830								X									
8	2013-BSA-6(0-2)		0844								X									
9	2013-MW10-3(0-0.5)		0907						X											
10	2013-MW10-3(0.5-2)	↓	0908	↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date: 3.5.13	Relinquished by:		Date: 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time: 1522	Company Name:	TAL	Time: 1730	Company Name:	Time
Received by:		Date: 3/5/13	Received by:		Date	Received by:	Date: 3/6/13
Company Name:	TAL	Time: 1532	Company Name:		Time	Company Name: TAH	Time: 0935

3/27/2013

Page 18 of 25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-3(2-4)	3.5.13	0905	S	4oz	—	1		X											HOLD
2	2013-MW10-3(4-5)		0906						X											HOLD
3	Dup 2		0909						X											
4	2013-MW10-2(0-0.5)		0942						X											
5	2013-MW10-2(0.5-2)		0941						X											HOLD
6	2013-MW10-2(2-4)		0940						X											HOLD
7	2013-MW10-2(4-5)		0939						X											HOLD
8	2013-MW10-1(0-0.5)		0942						X											
9	2013-MW10-1(0.5-2)		0941						X											HOLD
10	2013-MW10-1(2-4)		0940						X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAH	1730		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAH	1522			TAH	0935

3/27/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr. Ste. 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512. 671. 3434	Phone	
Fax		Fax	

Analyses / Method Requested
A. Lead
B. Lead & Cadmium
C. TPH
D. ~~P~~AH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-1(4-5)	3.5.13	940	S	4oz	—	1		X											HOLD
2	~~2013~~-SCC-3 (0.5-2)		1010					X												
3	SCC-3 (2-4)		1009					X												HOLD
4	SCC-3(4-5)		1011					X												HOLD
5	SCC-3A (0-0.5)		1030					X												
6	SCC-3A (0.5-2)		1031					X												HOLD
7	SCC-3A (2-4)		1032					X												HOLD
8	SCC-3A(4-5)		1033				↓	X												HOLD
9	MW-27 (0-1)		1045				3	X		X	X									
10	MW-27 (1-2)	↓	1046	↓	↓	↓	3	X		X	X									HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 17:22	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAL	Time 0955

3/27/2013

TestAmerica

- [ ] TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- [x] TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- [ ] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- [ ] TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- [ ] TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- [ ] Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. TPH
D. PAH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-27 (2-4)	3.5.13	1047	S	4 oz	—	3	X		X	X									HOLD
2	MW-27 (4-5)		1048				3	X		X	X									HOLD
3	2013-FWFS-1A (2-4)		1140				1	X												
4	2013-FWFS-1A (4-5)		1141				1	X												
5	MW-29 (2.5-4)		1151						X											
6	MW-29 (4-5)		1152						X											
7	2012-FWCS-1 (2.5-4)		1320					X												
8	2012-FWCS-1 (4-5)		1321					X												
9	2012-FWCS-1A (1-2)		1325					X												
10	2012-FWCS-1A (2-4)		1326					X												

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 1723	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: STL	Time 0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2012-FWCS-1A(4-5)	3.5.13	1327	S	4oz	—	1	X												HOLD
2	Dup #3		1328					X												
3	SCC-10(0.5-2)		1334					X												
4	SCC-10(2-4)		1335					X												HOLD
5	SCC-10(4-5)		1336					X												HOLD
6	SCC-10A(0-0.5)		1407						X											
7	SCC-10A(0.5-2)		1408						X											HOLD
8	SCC-10A(2-4)		1409						X											HOLD
9	SCC-10A(4-5)		1410						X											HOLD
10	2013-RO-1(0-0.5)		1426						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Seaton	3.5.13	M McCowen	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAL	1720		
Received by:	Date	Received by:	Date	Received by:	Date
M. Cowen	3/5/13				03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAL	1522			TAH	0435

3/27/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exido	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-RO-1(0.5-1)	3.5.13	1427	S	4oz	—	1		X											HOLD
2	2013-RO-1(1-1.5)		1428						X											HOLD
3	2013-RO-1(1.5-2)		1429						X											HOLD
4	2013-RO-1(2-3)		1430						X											HOLD
5	2013-RO-2(0-0.5)		1440						X											
6	2013-RO-2(0.5-1)		1441						X											HOLD
7	2013-RO-2(1-1.5)		1442						X											HOLD
8	2013-RO-2(1.5-2)		1443						X											HOLD
9	2013-RO-2(2-3)		1444						X											HOLD
10	MW-24(0-0.5)		1416						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	03.5.13	M McConn	3/5/13		
Company Name: PBW	Time 1522	Company Name: TAL	Time 1722	Company Name:	Time
Received by: M McConn	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

Page 7 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-24 (0.5-1)	3.5.13	1417	S	4 oz	—	1		X											HOLD
2	MW-24 (1-1.5)	↓	1418	↓	↓	↓	↓		X											HOLD
3	MW-24 (1.5-2)	↓	1419	↓	↓	↓	↓		X											HOLD
4	MW-24 (2-3)	↓	1420	↓	↓	↓	↓		X											HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date 3.5.13	Relinquished by:		Date 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time 1522	Company Name:	TAL	Time 1922	Company Name:	Time
Received by:		Date 3/5/13	Received by:		Date	Received by:	Date 3/06/13
Company Name:	TAL	Time 1922	Company Name:		Time	Company Name: TAH	Time 0935

3/27/2013

Page 24 of 25

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-2

Login Number: 69563

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69563-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
3/27/2013 9:43:52 AM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 25

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69563-3

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/26/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-3
Reviewer Name: TWR	Prep Batch Number(s): 600-101546- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-3
Reviewer Name: TWR	Prep Batch Number(s): 600-101546- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-3
Reviewer Name: TWR	Prep Batch Number(s): 600-101546- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69563-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69563-3

Comments
No additional comments.

Receipt
The samples were received on 3/6/2013 10:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 2 coolers at receipt time were 3.2º C and 3.7º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: SCC-3 (4-5) (600-69563-24).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69563-24	SCC-3 (4-5)	Solid	03/05/13 10:11	03/06/13 10:12

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Client Sample ID: SCC-3 (4-5)
Date Collected: 03/05/13 10:11
Date Received: 03/06/13 10:12

Lab Sample ID: 600-69563-24
Matrix: Solid
Percent Solids: 80.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15.2		0.579	0.121	mg/Kg	☼	03/13/13 09:28	03/14/13 10:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/13/13 14:53	1
Percent Solids	81		1.0	1.0	%			03/13/13 14:53	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101546/1-A
Matrix: Solid
Analysis Batch: 101645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101546

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		03/13/13 09:28	03/14/13 09:08	1

Lab Sample ID: LCSSRM 600-101546/2-A
Matrix: Solid
Analysis Batch: 101645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101546

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	78.99		mg/Kg		102.7	81.3 - 118.7		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69563-24 DU
Matrix: Solid
Analysis Batch: 101589

Client Sample ID: SCC-3 (4-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	19			20		%				4	20
Percent Solids	81			80		%				1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Metals

Prep Batch: 101546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-24	SCC-3 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-101546/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101546/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-24	SCC-3 (4-5)	Total/NA	Solid	6010B	101546
LCSSRM 600-101546/2-A	Lab Control Sample	Total/NA	Solid	6010B	101546
MB 600-101546/1-A	Method Blank	Total/NA	Solid	6010B	101546

General Chemistry

Analysis Batch: 101589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-24	SCC-3 (4-5)	Total/NA	Solid	Moisture	
600-69563-24 DU	SCC-3 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Client Sample ID: SCC-3 (4-5)
Date Collected: 03/05/13 10:11
Date Received: 03/06/13 10:12

Lab Sample ID: 600-69563-24
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101546	03/13/13 09:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	101645	03/14/13 10:28	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101589	03/13/13 14:53	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 600
69563

page 1 of 7

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D. pH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-9(0.5-2)	3.4.13	1530	S	4oz	—	1	X												
2	ECO-9(2-3.9)	↓	1535					X												HOLD
3	MW-23 (0-0.5)	3.5.13	0815						X		X									
4	MW-23 (0.5-2)		0816						X		X									HOLD
5	MW-23 (2-4)		0817						X		X									HOLD
6	MW-23 (4-5)		0818						X		X									HOLD
7	2013-BSA-7(0-2)		0830								X									
8	2013-BSA-6(0-2)		0844								X									
9	2013-MW10-3(0-0.5)		0907						X											
10	2013-MW10-3(0.5-2)	↓	0908	↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date: 3.5.13	Relinquished by:		Date: 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time: 1522	Company Name:	TAL	Time: 1730	Company Name:	Time
Received by:		Date: 3/5/13	Received by:		Date	Received by:	Date: 3/6/13
Company Name:	TAL	Time: 1532	Company Name:		Time	Company Name: TAH	Time: 0935

3/27/2013

Page 18 of 25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-3(2-4)	3.5.13	0905	S	4oz	—	1		X											HOLD
2	2013-MW10-3(4-5)		0906						X											HOLD
3	Dup 2		0909						X											
4	2013-MW10-2(0-0.5)		0942						X											
5	2013-MW10-2(0.5-2)		0941						X											HOLD
6	2013-MW10-2(2-4)		0940						X											HOLD
7	2013-MW10-2(4-5)		0939						X											HOLD
8	2013-MW10-1(0-0.5)		0942						X											
9	2013-MW10-1(0.5-2)		0941						X											HOLD
10	2013-MW10-1(2-4)		0940						X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAH	1730		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAH	1522			TAH	0935

3/27/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr. Ste. 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512. 671. 3434	Phone	
Fax		Fax	

Analyses / Method Requested
A. Lead
B. Lead & Cadmium
C. TPH
D. ~~P~~AH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-1(4-5)	3.5.13	940	S	4oz	—	1		X											HOLD
2	~~2013~~-SCC-3 (0.5-2)		1010					X												
3	SCC-3 (2-4)		1009					X												HOLD
4	SCC-3(4-5)		1011					X												HOLD
5	SCC-3A (0-0.5)		1030					X												
6	SCC-3A (0.5-2)		1031					X												HOLD
7	SCC-3A (2-4)		1032					X												HOLD
8	SCC-3A(4-5)		1033				↓	X												HOLD
9	MW-27 (0-1)		1045				3	X		X	X									
10	MW-27 (1-2)	↓	1046	↓	↓	↓	3	X		X	X									HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 17:22	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAL	Time 0955

3/27/2013

TestAmerica

- [ ] TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
- [x] TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
- [ ] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
- [ ] TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
- [ ] TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
- [ ] Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. TPH
D. PAH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-27 (2-4)	3.5.13	1047	S	4 oz	—	3	X		X	X									HOLD
2	MW-27 (4-5)		1048				3	X		X	X									HOLD
3	2013-FWFS-1A (2-4)		1140				1	X												
4	2013-FWFS-1A (4-5)		1141				1	X												
5	MW-29 (2.5-4)		1151						X											
6	MW-29 (4-5)		1152						X											
7	2012-FWCS-1 (2.5-4)		1320					X												
8	2012-FWCS-1 (4-5)		1321					X												
9	2012-FWCS-1A (1-2)		1325					X												
10	2012-FWCS-1A (2-4)		1326					X												

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 1723	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: STL	Time 0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2012-FWCS-1A(4-5)	3.5.13	1327	S	4oz	—	1	X												HOLD
2	Dup #3		1328					X												
3	SCC-10(0.5-2)		1334					X												
4	SCC-10(2-4)		1335					X												HOLD
5	SCC-10(4-5)		1336					X												HOLD
6	SCC-10A(0-0.5)		1407						X											
7	SCC-10A(0.5-2)		1408						X											HOLD
8	SCC-10A(2-4)		1409						X											HOLD
9	SCC-10A(4-5)		1410						X											HOLD
10	2013-RO-1(0-0.5)		1426						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Seaton	3.5.13	M McCowen	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAL	1720		
Received by:	Date	Received by:	Date	Received by:	Date
M. Cowen	3/5/13				03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAL	1522			TAH	0435

3/27/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exido	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-RO-1(0.5-1)	3.5.13	1427	S	4oz	—	1		X											HOLD
2	2013-RO-1(1-1.5)		1428						X											HOLD
3	2013-RO-1(1.5-2)		1429						X											HOLD
4	2013-RO-1(2-3)		1430						X											HOLD
5	2013-RO-2(0-0.5)		1440						X											
6	2013-RO-2(0.5-1)		1441						X											HOLD
7	2013-RO-2(1-1.5)		1442						X											HOLD
8	2013-RO-2(1.5-2)		1443						X											HOLD
9	2013-RO-2(2-3)		1444						X											HOLD
10	MW-24(0-0.5)		1416						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	03.5.13	M McConn	3/5/13		
Company Name: PBW	Time 1522	Company Name: TAL	Time 1722	Company Name:	Time
Received by: M McConn	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

Page 7 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-24 (0.5-1)	3.5.13	1417	S	4 oz	—	1		X											HOLD
2	MW-24 (1-1.5)	↓	1418	↓	↓	↓	↓		X											HOLD
3	MW-24 (1.5-2)	↓	1419	↓	↓	↓	↓		X											HOLD
4	MW-24 (2-3)	↓	1420	↓	↓	↓	↓		X											HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Carolyn Sexton	Date 3.5.13	Relinquished by:		Date 3/5/13	Relinquished by:	Date
Company Name:	PBW	Time 1522	Company Name:	TAL	Time 1922	Company Name:	Time
Received by:		Date 3/5/13	Received by:		Date	Received by:	Date 3/06/13
Company Name:	TAL	Time 1922	Company Name:		Time	Company Name: TAH	Time 0935

3/27/2013

Page 24 of 25

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-3

Login Number: 69563

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69563-4
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/27/2013 9:57:20 PM
Donnie Combs
Data Review Analyst I
donnie.combs@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 25

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69563

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/27/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/25/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69563-4
Reviewer Name: TWR	Prep Batch Number(s): 600-104520- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69563-4

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69563-4

Comments
No additional comments.

Receipt
The samples were received on 3/6/2013 10:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 3.7º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2013-MW10-2 (0.5-2) (600-69563-15), MW-23 (0.5-2) (600-69563-4).

General Chemistry
Method(s) Moisture: The following samples were prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired : 2013-MW10-2 (0.5-2) (600-69563-15), MW-23 (0.5-2) (600-69563-4).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69563-4	MW-23 (0.5-2)	Solid	03/05/13 08:16	03/06/13 10:12
600-69563-15	2013-MW10-2 (0.5-2)	Solid	03/05/13 09:44	03/06/13 10:12

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Client Sample ID: MW-23 (0.5-2)

Lab Sample ID: 600-69563-4
Date Collected: 03/05/13 08:16
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	481		0.575	0.121	mg/Kg	☼	04/22/13 16:51	04/23/13 13:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	84	H	1.0	1.0	%			04/22/13 15:07	1

Client Sample ID: 2013-MW10-2 (0.5-2)

Lab Sample ID: 600-69563-15
Date Collected: 03/05/13 09:44
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44.1		0.596	0.125	mg/Kg	☼	04/22/13 16:51	04/23/13 17:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22	H	1.0	1.0	%			04/22/13 15:07	1
Percent Solids	78	H	1.0	1.0	%			04/22/13 15:07	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 13:02	1

Lab Sample ID: MB 600-104520/1-A
Matrix: Solid
Analysis Batch: 104608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104520

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/22/13 16:51	04/23/13 17:18	1

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	66.92		mg/Kg		87.0	81.3 - 118.7

Lab Sample ID: LCSSRM 600-104520/2-A
Matrix: Solid
Analysis Batch: 104608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104520

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	66.31		mg/Kg		86.2	81.3 - 118.7

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Metals

Prep Batch: 104520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-4	MW-23 (0.5-2)	Total/NA	Solid	3050B	
600-69563-15	2013-MW10-2 (0.5-2)	Total/NA	Solid	3050B	
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104520/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-4	MW-23 (0.5-2)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

Analysis Batch: 104608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-15	2013-MW10-2 (0.5-2)	Total/NA	Solid	6010B	104520
LCSSRM 600-104520/2-A	Lab Control Sample	Total/NA	Solid	6010B	104520
MB 600-104520/1-A	Method Blank	Total/NA	Solid	6010B	104520

General Chemistry

Analysis Batch: 104500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69563-4	MW-23 (0.5-2)	Total/NA	Solid	Moisture	
600-69563-15	2013-MW10-2 (0.5-2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Client Sample ID: MW-23 (0.5-2)

Lab Sample ID: 600-69563-4

Date Collected: 03/05/13 08:16
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104562	04/23/13 13:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Client Sample ID: 2013-MW10-2 (0.5-2)

Lab Sample ID: 600-69563-15

Date Collected: 03/05/13 09:44
Matrix: Solid
Date Received: 03/06/13 10:12
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104520	04/22/13 16:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	104608	04/23/13 17:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104500	04/22/13 15:07	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69563-4

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 600
69563

page 1 of 7

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. Sulfate
D. pH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	ECO-9(0.5-2)	3.4.13	1530	S	4oz	—	1	X												
2	ECO-9(2-3.9)	↓	1535					X												HOLD
3	MW-23 (0-0.5)	3.5.13	0815						X		X									
4	MW-23 (0.5-2)		0816						X		X									HOLD
5	MW-23 (2-4)		0817						X		X									HOLD
6	MW-23 (4-5)		0818						X		X									HOLD
7	2013-BSA-7(0-2)		0830								X									
8	2013-BSA-6(0-2)		0844								X									
9	2013-MW10-3(0-0.5)		0907						X											
10	2013-MW10-3(0.5-2)	↓	0908	↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by: [illegible]	Date 3/5/13	Relinquished by:	Date		
Company Name: PBW	Time 1522	Company Name: TAL	Time 1730	Company Name:	Time		
Received by: [illegible]	Date 3/5/13	Received by:	Date	Received by: [illegible]	Date 3/6/13		
Company Name: TAL	Time 1532	Company Name:	Time	Company Name: TAH	Time 0935		

4/27/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-3(2-4)	3.5.13	0905	S	4oz	—	1		X											HOLD
2	2013-MW10-3(4-5)		0906						X											HOLD
3	Dup 2		0909						X											
4	2013-MW10-2(0-0.5)		0942						X											
5	2013-MW10-2(0.5-2)		0941						X											HOLD
6	2013-MW10-2(2-4)		0940						X											HOLD
7	2013-MW10-2(4-5)		0939						X											HOLD
8	2013-MW10-1(0-0.5)		0942						X											
9	2013-MW10-1(0.5-2)		0941						X											HOLD
10	2013-MW10-1(2-4)		0940						X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAH	1730		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAH	1522			TAH	0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Dr. Ste. 4004	Address:	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	
Phone	512. 671. 3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead & Cadmium
C. TPH
D. ~~P~~AH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-MW10-1(4-5)	3.5.13	940	S	4oz	—	1		X											HOLD
2	~~2013~~-SCC-3 (0.5-2)		1010					X												
3	SCC-3 (2-4)		1009					X												HOLD
4	SCC-3(4-5)		1011					X												HOLD
5	SCC-3A (0-0.5)		1030					X												
6	SCC-3A (0.5-2)		1031					X												HOLD
7	SCC-3A (2-4)		1032					X												HOLD
8	SCC-3A(4-5)		1033				↓	X												HOLD
9	MW-27 (0-1)		1045				3	X		X	X									
10	MW-27 (1-2)	↓	1046	↓	↓	↓	3	X		X	X									HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 17:22	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAL	Time 0955

4/27/2013

TestAmerica

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information	
P.O.	1755	Project Name	Exide
W.O.		Lab Number	
Company	PBW	Bill To	
Send Report To:	Will Vienne	Invoice Attn	
Address:	2201 Double Creek Ste 4004	Address:	
City/State/Zip	Round Rock TX 78664	City/State/Zip	
Phone	512.671.3434	Phone	
Fax		Fax	

Analyses / Method Requested

A. Lead
B. Lead + Cadmium
C. TPH
D. PAH
E.

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-27 (2-4)	3.5.13	1047	S	4 oz	—	3	X		X	X									HOLD
2	MW-27 (4-5)		1048				3	X		X	X									HOLD
3	2013-FWFS-1A (2-4)		1140				1	X												
4	2013-FWFS-1A (4-5)		1141				1	X												
5	MW-29 (2.5-4)		1151						X											
6	MW-29 (4-5)		1152						X											
7	2012-FWCS-1 (2.5-4)		1320					X												
8	2012-FWCS-1 (4-5)		1321					X												
9	2012-FWCS-1A (1-2)		1325					X												
10	2012-FWCS-1A (2-4)		1326					X												

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 3/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 1723	Company Name:	Time
Received by:	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

Page 5 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste #1004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2012-FWCS-1A(4-5)	3.5.13	1327	S	4oz	—	1	X												HOLD
2	Dup #3		1328					X												
3	SCC-10(0.5-2)		1334					X												
4	SCC-10(2-4)		1335					X												HOLD
5	SCC-10(4-5)		1336					X												HOLD
6	SCC-10A(0-0.5)		1407						X											
7	SCC-10A(0.5-2)		1408						X											HOLD
8	SCC-10A(2-4)		1409						X											HOLD
9	SCC-10A(4-5)		1410						X											HOLD
10	2013-RO-1(0-0.5)		1426						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Seidhorn	3.5.13	[signature]	3/5/13		
Company Name:	Time	Company Name:	Time	Company Name:	Time
PBW	1522	TAL	1720		
Received by:	Date	Received by:	Date	Received by:	Date
[signature]	3/5/13			[signature]	03/06/13
Company Name:	Time	Company Name:	Time	Company Name:	Time
TAL	1522			TAH	0435

4/27/2013

Page 22 of 25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exido	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	2013-RO-1(0.5-1)	3.5.13	1427	S	4oz	—	1		X											HOLD
2	2013-RO-1(1-1.5)		1428						X											HOLD
3	2013-RO-1(1.5-2)		1429						X											HOLD
4	2013-RO-1(2-3)		1430						X											HOLD
5	2013-RO-2(0-0.5)		1440						X											
6	2013-RO-2(0.5-1)		1441						X											HOLD
7	2013-RO-2(1-1.5)		1442						X											HOLD
8	2013-RO-2(1.5-2)		1443						X											HOLD
9	2013-RO-2(2-3)		1444						X											HOLD
10	MW-24(0-0.5)		1416						X											

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	03.5.13	M McConn	3/5/13		
Company Name: PBW	Time 1522	Company Name: TAL	Time 1722	Company Name:	Time
Received by: M McConn	Date 3/5/13	Received by:	Date	Received by:	Date 03/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienna	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-24 (0.5-1)	3.5.13	1417	S	4 oz	—	1		X											HOLD
2	MW-24 (1-1.5)	↓	1418	↓	↓	↓	↓		X											HOLD
3	MW-24 (1.5-2)	↓	1419	↓	↓	↓	↓		X											HOLD
4	MW-24 (2-3)	↓	1420	↓	↓	↓	↓		X											HOLD
5																				
6																				
7																				
8																				
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.5.13	Relinquished by:	Date 5/5/13	Relinquished by:	Date
Company Name: PBW	Time 1522	Company Name: TAL	Time 1522	Company Name:	Time
Received by:	Date 5/5/13	Received by:	Date	Received by:	Date 5/06/13
Company Name: TAL	Time 1522	Company Name:	Time	Company Name: TAH	Time 0935

4/27/2013

Page 24 of 25

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69563-4

Login Number: 69563

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69642-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 2

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/11/2013 11:47:30 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 16
QC Sample Results 17
Default Detection Limits 19
QC Association Summary 20
Lab Chronicle 22
Certification Summary 27
Chain of Custody 28
Receipt Checklists 33

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69642-1rev

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/11/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 06/11/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642
Reviewer Name: TWR	Prep Batch Number(s): 600-101117- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank for batch 101117. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recoveries in samples 69642-19 MS and MSD were outside acceptance limits, but was not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by an acceptable LCS recovery
3	The lead SDL was elevated in samples 69642-24 due to the dilution necessary to bring this analyte to within linear dynamic range.
4	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-69642-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69642-1

Comments
The report was revised on 04/16/13 to update the sample ID for sample 24 and again on 06/11/13 to include arsenic in the metals section of the report per client request.

Receipt
The samples were received on 3/7/2013 9:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 1.9º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69642-1	MW-21 (0-0.5)	Solid	03/05/13 00:00	03/07/13 09:09
600-69642-5	ECO-12 (0-0.5)	Solid	03/05/13 00:00	03/07/13 09:09
600-69642-9	MW-22 (0-0.5)	Solid	03/05/13 00:00	03/07/13 09:09
600-69642-13	ECO-11 (0-0.5)	Solid	03/05/13 00:00	03/07/13 09:09
600-69642-17	2012-NDA-1 (4-5)	Solid	03/05/13 00:00	03/07/13 09:09
600-69642-19	SCC-11A (0-0.5)	Solid	03/06/13 09:00	03/07/13 09:09
600-69642-22	SCC-11 (2-4)	Solid	03/06/13 09:30	03/07/13 09:09
600-69642-23	Dup 4	Solid	03/06/13 09:31	03/07/13 09:09
600-69642-24	2012-SL-1 (4-5)	Solid	03/06/13 10:00	03/07/13 09:09
600-69642-26	E-11A (0-0.5)	Solid	03/06/13 11:00	03/07/13 09:09
600-69642-30	E-11 (0.5-2)	Solid	03/06/13 11:35	03/07/13 09:09
600-69642-33	E-15A (0-0.5)	Solid	03/06/13 12:00	03/07/13 09:09
600-69642-37	MW-29 (0-0.5)	Solid	03/06/13 13:49	03/07/13 09:09
600-69642-39	ECO-3 (0.5-2)	Solid	03/06/13 14:17	03/07/13 09:09
600-69642-41	ECO-7 (0.5-2)	Solid	03/06/13 14:40	03/07/13 09:09
600-69642-43	ECO-7A (0-0.5)	Solid	03/06/13 14:59	03/07/13 09:09
600-69642-46	Dup-5	Solid	03/06/13 15:02	03/07/13 09:09

Client Sample ID: MW-21 (0-0.5)

Lab Sample ID: 600-69642-1
Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.340		0.284	0.0291	mg/Kg	☼	03/07/13 11:10	03/07/13 16:18	1
Lead	8.59	b	0.567	0.119	mg/Kg	☼	03/07/13 11:10	03/07/13 16:18	1
Arsenic	7.09		1.13	0.247	mg/Kg	☼	03/07/13 11:10	03/07/13 16:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	85		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: ECO-12 (0-0.5)

Lab Sample ID: 600-69642-5
Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.953		0.294	0.0302	mg/Kg	☼	03/07/13 11:10	03/07/13 16:21	1
Lead	240	b	0.588	0.123	mg/Kg	☼	03/07/13 11:10	03/07/13 16:21	1
Arsenic	11.9		1.18	0.256	mg/Kg	☼	03/07/13 11:10	03/07/13 16:21	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	79		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: MW-22 (0-0.5)

Lab Sample ID: 600-69642-9
Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 80.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.853		0.303	0.0310	mg/Kg	☼	03/07/13 11:10	03/07/13 16:30	1
Lead	84.2	b	0.605	0.127	mg/Kg	☼	03/07/13 11:10	03/08/13 11:14	1
Arsenic	13.0		1.21	0.264	mg/Kg	☼	03/07/13 11:10	03/07/13 16:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	80		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: ECO-11 (0-0.5)

Lab Sample ID: 600-69642-13
Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.809		0.287	0.0294	mg/Kg	☼	03/07/13 11:10	03/07/13 16:33	1
Lead	45.3	b	0.574	0.120	mg/Kg	☼	03/07/13 11:10	03/08/13 11:17	1
Arsenic	11.1		1.15	0.250	mg/Kg	☼	03/07/13 11:10	03/07/13 16:33	1

Client Sample ID: ECO-11 (0-0.5)

Lab Sample ID: 600-69642-13

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	80		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: 2012-NDA-1 (4-5)

Lab Sample ID: 600-69642-17

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 74.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19.0	b	0.629	0.132	mg/Kg	☼	03/07/13 11:10	03/08/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	75		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: SCC-11A (0-0.5)

Lab Sample ID: 600-69642-19

Date Collected: 03/06/13 09:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.45		0.294	0.0302	mg/Kg	☼	03/07/13 11:10	03/07/13 16:38	1
Lead	268	b	0.588	0.123	mg/Kg	☼	03/07/13 11:10	03/08/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	79		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: SCC-11 (2-4)

Lab Sample ID: 600-69642-22

Date Collected: 03/06/13 09:30
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 76.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.538		0.313	0.0321	mg/Kg	☼	03/07/13 11:10	03/07/13 16:48	1
Lead	17.6	b	0.626	0.131	mg/Kg	☼	03/07/13 11:10	03/08/13 11:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	77		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: Dup 4

Lab Sample ID: 600-69642-23

Date Collected: 03/06/13 09:31
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 76.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.697		0.303	0.0311	mg/Kg	☼	03/07/13 11:10	03/07/13 16:51	1

Client Sample ID: Dup 4

Lab Sample ID: 600-69642-23
Date Collected: 03/06/13 09:31
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 76.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60.9	b	0.606	0.127	mg/Kg	☼	03/07/13 11:10	03/08/13 11:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	76		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: 2012-SL-1 (4-5)

Lab Sample ID: 600-69642-24
Date Collected: 03/06/13 10:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 98.4

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	48500	b	24.0	5.03	mg/Kg	☼	03/07/13 11:10	03/08/13 11:44	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	98		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: E-11A (0-0.5)

Lab Sample ID: 600-69642-26
Date Collected: 03/06/13 11:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 73.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.89		0.324	0.0333	mg/Kg	☼	03/07/13 11:10	03/07/13 17:03	1
Lead	816	b	0.649	0.136	mg/Kg	☼	03/07/13 11:10	03/08/13 11:46	1
Arsenic	27.4		1.30	0.283	mg/Kg	☼	03/07/13 11:10	03/07/13 17:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	73		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: E-11 (0.5-2)

Lab Sample ID: 600-69642-30
Date Collected: 03/06/13 11:35
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 80.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	109	b	0.573	0.120	mg/Kg	☼	03/07/13 11:10	03/08/13 11:48	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	80		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: E-15A (0-0.5)

Lab Sample ID: 600-69642-33

Date Collected: 03/06/13 12:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.51		0.305	0.0313	mg/Kg	☼	03/07/13 11:10	03/07/13 17:08	1
Lead	234	b	0.610	0.128	mg/Kg	☼	03/07/13 11:10	03/08/13 11:51	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	80		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: MW-29 (0-0.5)

Lab Sample ID: 600-69642-37

Date Collected: 03/06/13 13:49
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 81.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.38		0.300	0.0308	mg/Kg	☼	03/07/13 11:10	03/07/13 17:10	1
Lead	455	b	0.601	0.126	mg/Kg	☼	03/07/13 11:10	03/08/13 11:53	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	82		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: ECO-3 (0.5-2)

Lab Sample ID: 600-69642-39

Date Collected: 03/06/13 14:17
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 80.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43.9	b	0.596	0.125	mg/Kg	☼	03/07/13 11:10	03/08/13 11:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	81		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: ECO-7 (0.5-2)

Lab Sample ID: 600-69642-41

Date Collected: 03/06/13 14:40
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 82.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	76.5	b	0.593	0.124	mg/Kg	☼	03/07/13 11:10	03/08/13 11:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	83		1.0	1.0	%			03/07/13 11:33	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Client Sample ID: ECO-7A (0-0.5)

Lab Sample ID: 600-69642-43

Date Collected: 03/06/13 14:59
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 82.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.61		0.302	0.0310	mg/Kg	☼	03/07/13 11:10	03/07/13 17:18	1
Lead	606	b	0.605	0.127	mg/Kg	☼	03/07/13 11:10	03/08/13 12:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	83		1.0	1.0	%			03/07/13 11:33	1

Client Sample ID: Dup-5

Lab Sample ID: 600-69642-46

Date Collected: 03/06/13 15:02
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.64		0.279	0.0287	mg/Kg	☼	03/07/13 11:10	03/07/13 17:20	1
Lead	400	b	0.559	0.117	mg/Kg	☼	03/07/13 11:10	03/08/13 12:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			03/07/13 11:33	1
Percent Solids	84		1.0	1.0	%			03/07/13 11:33	1

Qualifiers

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101117/1-A
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101117

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/07/13 11:10	03/07/13 16:00	1
Lead	0.1550	J	0.500	0.105	mg/Kg		03/07/13 11:10	03/07/13 16:00	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		03/07/13 11:10	03/07/13 16:00	1

Lab Sample ID: MB 600-101117/1-A
Matrix: Solid
Analysis Batch: 101202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101117

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.1750	J	0.500	0.105	mg/Kg		03/07/13 11:10	03/08/13 11:10	1

Lab Sample ID: LCSSRM 600-101117/2-A
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	100.9		mg/Kg		98.0	83.6 - 115.5
Lead	76.9	76.28		mg/Kg		99.2	81.3 - 118.7
Arsenic	168	167.2		mg/Kg		99.5	83.3 - 117.3

Lab Sample ID: LCSSRM 600-101117/2-A
Matrix: Solid
Analysis Batch: 101202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	81.97		mg/Kg		106.6	81.3 - 118.7

Lab Sample ID: 600-69642-19 MS
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	2.58		30.7	31.64		mg/Kg	☼	95	75 - 125
Arsenic	14.8		61.4	68.59		mg/Kg	☼	88	75 - 125

Lab Sample ID: 600-69642-19 MS
Matrix: Solid
Analysis Batch: 101202

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	268	b	61.4	379.1	4	mg/Kg	☼	181	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-69642-19 MSD
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	2.58		30.6	31.98		mg/Kg	☼	96	75 - 125	4	20
Arsenic	14.8		61.1	69.17		mg/Kg	☼	89	75 - 125	10	20

Lab Sample ID: 600-69642-19 MSD
Matrix: Solid
Analysis Batch: 101202

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	268	b	61.1	411.3	4	mg/Kg	☼	235	75 - 125	8	20

Lab Sample ID: 600-69642-19 DU
Matrix: Solid
Analysis Batch: 101149

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	2.58		2.749		mg/Kg	☼	6	20
Arsenic	14.8		13.41		mg/Kg	☼	10	20

Lab Sample ID: 600-69642-19 DU
Matrix: Solid
Analysis Batch: 101202

Client Sample ID: SCC-11A (0-0.5)
Prep Type: Total/NA
Prep Batch: 101117

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	268	b	300.4		mg/Kg	☼	11	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69642-30 DU
Matrix: Solid
Analysis Batch: 101121

Client Sample ID: E-11 (0.5-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	20		19		%		6	20
Percent Solids	80		81		%		1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 101117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-1	MW-21 (0-0.5)	Total/NA	Solid	3050B	
600-69642-5	ECO-12 (0-0.5)	Total/NA	Solid	3050B	
600-69642-9	MW-22 (0-0.5)	Total/NA	Solid	3050B	
600-69642-13	ECO-11 (0-0.5)	Total/NA	Solid	3050B	
600-69642-17	2012-NDA-1 (4-5)	Total/NA	Solid	3050B	
600-69642-19	SCC-11A (0-0.5)	Total/NA	Solid	3050B	
600-69642-19 DU	SCC-11A (0-0.5)	Total/NA	Solid	3050B	
600-69642-19 MS	SCC-11A (0-0.5)	Total/NA	Solid	3050B	
600-69642-19 MSD	SCC-11A (0-0.5)	Total/NA	Solid	3050B	
600-69642-22	SCC-11 (2-4)	Total/NA	Solid	3050B	
600-69642-23	Dup 4	Total/NA	Solid	3050B	
600-69642-24 - DL	2012-SL-1 (4-5)	Total/NA	Solid	3050B	
600-69642-26	E-11A (0-0.5)	Total/NA	Solid	3050B	
600-69642-30	E-11 (0.5-2)	Total/NA	Solid	3050B	
600-69642-33	E-15A (0-0.5)	Total/NA	Solid	3050B	
600-69642-37	MW-29 (0-0.5)	Total/NA	Solid	3050B	
600-69642-39	ECO-3 (0.5-2)	Total/NA	Solid	3050B	
600-69642-41	ECO-7 (0.5-2)	Total/NA	Solid	3050B	
600-69642-43	ECO-7A (0-0.5)	Total/NA	Solid	3050B	
600-69642-46	Dup-5	Total/NA	Solid	3050B	
LCSSRM 600-101117/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101117/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-1	MW-21 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-5	ECO-12 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-9	MW-22 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-13	ECO-11 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19 DU	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19 MS	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19 MSD	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-22	SCC-11 (2-4)	Total/NA	Solid	6010B	101117
600-69642-23	Dup 4	Total/NA	Solid	6010B	101117
600-69642-26	E-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-33	E-15A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-37	MW-29 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-43	ECO-7A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-46	Dup-5	Total/NA	Solid	6010B	101117
LCSSRM 600-101117/2-A	Lab Control Sample	Total/NA	Solid	6010B	101117
MB 600-101117/1-A	Method Blank	Total/NA	Solid	6010B	101117

Analysis Batch: 101202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-9	MW-22 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-13	ECO-11 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-17	2012-NDA-1 (4-5)	Total/NA	Solid	6010B	101117
600-69642-19	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19 DU	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-19 MS	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117

Metals (Continued)

Analysis Batch: 101202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-19 MSD	SCC-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-22	SCC-11 (2-4)	Total/NA	Solid	6010B	101117
600-69642-23	Dup 4	Total/NA	Solid	6010B	101117
600-69642-24 - DL	2012-SL-1 (4-5)	Total/NA	Solid	6010B	101117
600-69642-26	E-11A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-30	E-11 (0.5-2)	Total/NA	Solid	6010B	101117
600-69642-33	E-15A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-37	MW-29 (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-39	ECO-3 (0.5-2)	Total/NA	Solid	6010B	101117
600-69642-41	ECO-7 (0.5-2)	Total/NA	Solid	6010B	101117
600-69642-43	ECO-7A (0-0.5)	Total/NA	Solid	6010B	101117
600-69642-46	Dup-5	Total/NA	Solid	6010B	101117
LCSSRM 600-101117/2-A	Lab Control Sample	Total/NA	Solid	6010B	101117
MB 600-101117/1-A	Method Blank	Total/NA	Solid	6010B	101117

General Chemistry

Analysis Batch: 101121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-1	MW-21 (0-0.5)	Total/NA	Solid	Moisture	
600-69642-5	ECO-12 (0-0.5)	Total/NA	Solid	Moisture	
600-69642-9	MW-22 (0-0.5)	Total/NA	Solid	Moisture	
600-69642-13	ECO-11 (0-0.5)	Total/NA	Solid	Moisture	
600-69642-17	2012-NDA-1 (4-5)	Total/NA	Solid	Moisture	
600-69642-19	SCC-11A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-19 MS	SCC-11A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-19 MSD	SCC-11A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-22	SCC-11 (2-4)	Total/NA	Solid	Moisture	
600-69642-23	Dup 4	Total/NA	Solid	Moisture	
600-69642-24	2012-SL-1 (4-5)	Total/NA	Solid	Moisture	
600-69642-26	E-11A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-30	E-11 (0.5-2)	Total/NA	Solid	Moisture	
600-69642-30 DU	E-11 (0.5-2)	Total/NA	Solid	Moisture	
600-69642-33	E-15A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-37	MW-29 (0-0.5)	Total/NA	Solid	Moisture	
600-69642-39	ECO-3 (0.5-2)	Total/NA	Solid	Moisture	
600-69642-41	ECO-7 (0.5-2)	Total/NA	Solid	Moisture	
600-69642-43	ECO-7A (0-0.5)	Total/NA	Solid	Moisture	
600-69642-46	Dup-5	Total/NA	Solid	Moisture	

Client Sample ID: MW-21 (0-0.5)

Lab Sample ID: 600-69642-1

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:18	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: ECO-12 (0-0.5)

Lab Sample ID: 600-69642-5

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:21	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: MW-22 (0-0.5)

Lab Sample ID: 600-69642-9

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:30	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: ECO-11 (0-0.5)

Lab Sample ID: 600-69642-13

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:33	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: 2012-NDA-1 (4-5)

Lab Sample ID: 600-69642-17

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:19	DCL	TAL HOU

Client Sample ID: 2012-NDA-1 (4-5)

Lab Sample ID: 600-69642-17

Date Collected: 03/05/13 00:00
Matrix: Solid
Date Received: 03/07/13 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: SCC-11A (0-0.5)

Lab Sample ID: 600-69642-19

Date Collected: 03/06/13 09:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:38	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: SCC-11 (2-4)

Lab Sample ID: 600-69642-22

Date Collected: 03/06/13 09:30
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:48	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:32	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: Dup 4

Lab Sample ID: 600-69642-23

Date Collected: 03/06/13 09:31
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 16:51	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: 2012-SL-1 (4-5)

Lab Sample ID: 600-69642-24

Date Collected: 03/06/13 10:00
Matrix: Solid
Date Received: 03/07/13 09:09
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B	DL	50	101202	03/08/13 11:44	DCL	TAL HOU

Client Sample ID: 2012-SL-1 (4-5)

Lab Sample ID: 600-69642-24

Date Collected: 03/06/13 10:00

Matrix: Solid

Date Received: 03/07/13 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: E-11A (0-0.5)

Lab Sample ID: 600-69642-26

Date Collected: 03/06/13 11:00

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 17:03	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:46	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: E-11 (0.5-2)

Lab Sample ID: 600-69642-30

Date Collected: 03/06/13 11:35

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:48	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: E-15A (0-0.5)

Lab Sample ID: 600-69642-33

Date Collected: 03/06/13 12:00

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 17:08	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:51	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: MW-29 (0-0.5)

Lab Sample ID: 600-69642-37

Date Collected: 03/06/13 13:49

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 17:10	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:53	DCL	TAL HOU

Client Sample ID: MW-29 (0-0.5)

Lab Sample ID: 600-69642-37

Date Collected: 03/06/13 13:49

Matrix: Solid

Date Received: 03/07/13 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: ECO-3 (0.5-2)

Lab Sample ID: 600-69642-39

Date Collected: 03/06/13 14:17

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: ECO-7 (0.5-2)

Lab Sample ID: 600-69642-41

Date Collected: 03/06/13 14:40

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 11:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: ECO-7A (0-0.5)

Lab Sample ID: 600-69642-43

Date Collected: 03/06/13 14:59

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 17:18	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 12:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Client Sample ID: Dup-5

Lab Sample ID: 600-69642-46

Date Collected: 03/06/13 15:02

Matrix: Solid

Date Received: 03/07/13 09:09

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101149	03/07/13 17:20	DCL	TAL HOU
Total/NA	Prep	3050B			101117	03/07/13 11:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	101202	03/08/13 12:03	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101121	03/07/13 11:33	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1 of 5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-21(0-0.5)	3.5.13		S	4oz	-	1		X											
2	MW-21(0.5-2)	↓		↓	↓	↓	↓		X											HOLD
3	MW-21(2-4)								X											HOLD
4	MW-21(4-5)								X											HOLD
5	SCO-12(0.0.5)								X											
6	SCO-12(5-2)								X											HOLD
7	SCO-12(2-4)								X											HOLD
8	SCO-12(4-5)								X											HOLD
9	MW-22(0-0.5)								X											
10	MW-22(0.5-2)	↓		↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.6.13	[signature]	3/6/13		
Company Name: PBW	Time 1500	Company Name: TAL	Time 1730	Company Name:	Time
Received by: [signature]	Date 3/6/13	Received by:	Date	Received by: [signature]	Date 3/07/13
Company Name: TAL	Time 1800	Company Name:	Time	Company Name: TAH	Time 0909

6/11/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2-5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728

☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040

☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404

☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408

☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204

☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr. Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-22(2-4)	3.5.13		S	4oz	—	1		X											HOLD
2	MW-22(4-5)								X											HOLD
3	ECO-11(0-0.5)								X											
4	ECO-11(0.5-2)								X											HOLD
5	ECO-11(2-4)								X											HOLD
6	ECO-11(4-5)								X											HOLD
7	2012-NDA-1(4-5)							X												
8	2012-NDA-1(5-6)	↓		↓	↓	↓	↓	X												HOLD
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.6.13	Relinquished by: MMcGrue	Date 3/7/13	Relinquished by: JP	Date
Company Name: PBW	Time 1500	Company Name: TAL	Time 1730	Company Name:	Time
Received by: MMcGrue	Date 3/7/13	Received by:	Date	Received by:	Date 03/07/13
Company Name: TAL	Time 1500	Company Name:	Time	Company Name: TAH	Time 0909

6/11/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

NO. 44203

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
PHONE: 512. 671. 3434	ADDRESS:
FAX:	PHONE:
	FAX: PO NO:

ANALYSIS/METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	SCC-11A (0-0.5)*	3.6.13	900	S	4oz	—	1		X	*MS-MSD
	SCC-11A (0.5-2)		901						X	HOLD
	SCC-11A (2-3)		902						X	HOLD
	SCC-11 (2-4)		930						X	
	Dup 4		931					X		
	2012-SL-1 (4-5)		1000					X		HOLD
	2012-SL-1 (5-6)		1004						X	
	E-11A (0-0.5)		1100						X	HOLD
	E-11A (0.5-2)		1101						X	HOLD
	E-11A (2-4)		1102						X	HOLD
	E-11A (4-5)		1103						X	HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAT	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAT	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Polumbant / TAH	TIME 0900

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

6/11/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	Σ-11 (0.5-2)	3.6.13	1136	S	4oz	—	1	X		
	Σ-11 (2-4)		1137					X		HOLD
	Σ-11 (4-5)		1138					X		HOLD
	Σ-15A (0-0.5)		1200						X	
	Σ-15A (0.5-2)		1201						X	HOLD
	Σ-15A (2-4)		1202						X	HOLD
	Σ-15A (4-5)		1203						X	HOLD
	MW-29 (0-0.5)		1349						X	
	MW-29 (0.5-2)		1350						X	HOLD
	ECO-3 (0.5-2)		1417					X		
	ECO-3 (2-3)		1418					X		HOLD

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE: McCarver	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: McCarver	3/6/13	SIGNATURE:		SIGNATURE: Stellamburst	03/07/13
PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pelumbari / TMH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.247

Houston

Page 545 No. 44289

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
	ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	ANALYSIS/METHOD REQUEST: Lead + Cadmium	REMARKS/PRECAUTIONS.
	EC0-7 (0.5-2)	3.6.13	1440	S	4oz	—	1	X		
	EC0-7 (2-3)	↓	1441	↓	↓	↓	↓	X		HOLD
	EC0-7A (0-0.5)		1459						X	
	EC0-7A (0.5-2)		1500						X	HOLD
	EC0-7A (2-3)		1501						X	HOLD
	Dup-5		1502						X	

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulvinghast / TAH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive Houston
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69642-1

Login Number: 69642

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9 1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69642-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/10/2013 5:31:36 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 23

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69642-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/10/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105346- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105346- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105346- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69642-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69642-2

Comments
No additional comments.

Receipt
The samples were received on 3/7/2013 9:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 1.9º C.

General Chemistry
Method(s) Moisture: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired : E-11 (2-4) (600-69642-31).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69642-31	E-11 (2-4)	Solid	03/06/13 11:37	03/07/13 09:09

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Client Sample ID: E-11 (2-4)
Date Collected: 03/06/13 11:37
Date Received: 03/07/13 09:09

Lab Sample ID: 600-69642-31
Matrix: Solid
Percent Solids: 79.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.865		0.307	0.0314	mg/Kg	☼	05/03/13 14:01	05/06/13 08:58	1
Lead	46.0		0.613	0.129	mg/Kg	☼	05/03/13 14:01	05/06/13 08:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21	H	1.0	1.0	%			05/03/13 14:16	1
Percent Solids	79	H	1.0	1.0	%			05/03/13 14:16	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105346/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105420 — **Prep Batch: 105346**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/03/13 14:01	05/06/13 08:53	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/03/13 14:01	05/06/13 08:53	1

Lab Sample ID: LCSSRM 600-105346/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105420 — **Prep Batch: 105346**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	100.3		mg/Kg		97.4	83.6 - 115.5
Lead	76.9	75.32		mg/Kg		97.9	81.3 - 118.7

Lab Sample ID: 600-69642-31 MS — **Client Sample ID: E-11 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105420 — **Prep Batch: 105346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.865		30.7	26.34		mg/Kg	☼	83	75 - 125
Lead	46.0		61.3	92.77		mg/Kg	☼	76	75 - 125

Lab Sample ID: 600-69642-31 MSD — **Client Sample ID: E-11 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105420 — **Prep Batch: 105346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.865		29.5	25.94		mg/Kg	☼	85	75 - 125	2	20
Lead	46.0		59.0	90.54		mg/Kg	☼	76	75 - 125	2	20

Lab Sample ID: 600-69642-31 DU — **Client Sample ID: E-11 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105420 — **Prep Batch: 105346**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.865		0.5672		mg/Kg	☼	42	20
Lead	46.0		42.50		mg/Kg	☼	8	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69642-31 DU — **Client Sample ID: E-11 (2-4)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105348

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	21	H	21		%		0.8	20
Percent Solids	79	H	79		%		0.2	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Metals

Prep Batch: 105346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-31	E-11 (2-4)	Total/NA	Solid	3050B	
600-69642-31 DU	E-11 (2-4)	Total/NA	Solid	3050B	
600-69642-31 MS	E-11 (2-4)	Total/NA	Solid	3050B	
600-69642-31 MSD	E-11 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-105346/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105346/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-31	E-11 (2-4)	Total/NA	Solid	6010B	105346
600-69642-31 DU	E-11 (2-4)	Total/NA	Solid	6010B	105346
600-69642-31 MS	E-11 (2-4)	Total/NA	Solid	6010B	105346
600-69642-31 MSD	E-11 (2-4)	Total/NA	Solid	6010B	105346
LCSSRM 600-105346/2-A	Lab Control Sample	Total/NA	Solid	6010B	105346
MB 600-105346/1-A	Method Blank	Total/NA	Solid	6010B	105346

General Chemistry

Analysis Batch: 105348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-31	E-11 (2-4)	Total/NA	Solid	Moisture	
600-69642-31 DU	E-11 (2-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Client Sample ID: E-11 (2-4)
Date Collected: 03/06/13 11:37
Date Received: 03/07/13 09:09

Lab Sample ID: 600-69642-31
Matrix: Solid
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105346	05/03/13 14:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	105420	05/06/13 08:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105348	05/03/13 14:16	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1 of 5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-21(0-0.5)	3.5.13		S	4oz	-	1		X											
2	MW-21 (0.5-2)	↓		↓	↓	↓	↓		X											HOLD
3	MW-21 (2-4)								X											HOLD
4	MW-21 (4-5)								X											HOLD
5	SCO-12(0.0.5)								X											
6	SCO-1265-2)								X											HOLD
7	SCO-12(2-4)								X											HOLD
8	SCO-12(4-5)								X											HOLD
9	MW-22(0-0.5)								X											
10	MW-22 (0.5-2)	↓		↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.6.13	[signature]	3/6/13		
Company Name: PBW	Time 1500	Company Name: TA	Time 1730	Company Name:	Time
Received by: [signature]	Date 3/6/13	Received by:	Date	Received by: [signature]	Date 3/07/13
Company Name: TA	Time 1810	Company Name:	Time	Company Name: TAH	Time 0909

5/10/2013

Page 18 of 23

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2 of 5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr. Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-22(2-4)	3.5.13		S	4oz	—	1		X											HOLD
2	MW-22(4-5)								X											HOLD
3	ECO-11(0-0.5)								X											
4	ECO-11(0.5-2)								X											HOLD
5	ECO-11(2-4)								X											HOLD
6	ECO-1(4-5)								X											HOLD
7	2012-NDA-1(4-5)							X												
8	2012-NDA-1(5-6)	↓		↓	↓	↓	↓	X												HOLD
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.6.13	Relinquished by: MMcGraw	Date 3/7/13	Relinquished by: JP	Date
Company Name: PBW	Time 1500	Company Name: TAL	Time 1730	Company Name:	Time
Received by: MMcGraw	Date 3/7/13	Received by:	Date	Received by:	Date 03/07/13
Company Name: TAL	Time 1500	Company Name:	Time	Company Name: TAH	Time 0909

5/10/2013

Page 19 of 23

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

NO. 44209

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
PHONE: 512. 671. 3434	ADDRESS:
FAX:	PHONE:
	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	SCC-11A (0-0.5)*	3.6.13	900	S	4oz	—	1		X	*MS-MSD
	SCC-11A (0.5-2)		901						X	HOLD
	SCC-11A (2-3)		902						X	HOLD
	SCC-11 (2-4)		930						X	
	Dup 4		931					X		
	2012-SL-1 (4-5)		1000					X		HOLD
	2012-SL-1 (5-6)		1004						X	
	E-11A (0-0.5)		1100						X	HOLD
	E-11A (0.5-2)		1101						X	HOLD
	E-11A (2-4)		1102						X	HOLD
	E-11A (4-5)		1103						X	HOLD

ANALYSIS/METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAL	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAL	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Polumbant / TAH	TIME 0900

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

5/10/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	Σ-11 (0.5-2)	3.6.13	1136	S	4oz	—	1	X		
	Σ-11 (2-4)		1137					X		HOLD
	Σ-11 (4-5)		1138					X		HOLD
	Σ-15A (0-0.5)		1200						X	
	Σ-15A (0.5-2)		1201						X	HOLD
	Σ-15A (2-4)		1202						X	HOLD
	Σ-15A (4-5)		1203						X	HOLD
	MW-29 (0-0.5)		1349						X	
	MW-29 (0.5-2)		1350						X	HOLD
	ECO-3 (0.5-2)		1417					X		
	ECO-3 (2-3)		1418					X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:
REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE: McCarver	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TR	TIME 1900	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: McCarver	3/6/13	SIGNATURE:		SIGNATURE: Stellamberst	03/07/13
PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pelumbari / TMH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.247
Houston

Page 545 No. 44289

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
	ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	ANALYSIS/METHOD REQUEST: Lead + Cadmium	REMARKS/PRECAUTIONS.
	EC0-7 (0.5-2)	3.6.13	1440	S	4oz	—	1	X		
	EC0-7 (2-3)	↓	1441	↓	↓	↓	↓	X		HOLD
	EC0-7A (0-0.5)		1459						X	
	EC0-7A (0.5-2)		1500						X	HOLD
	EC0-7A (2-3)		1501						X	HOLD
	Dup-5		1502						X	

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulvinghast / TAH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

5/10/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69642-2

Login Number: 69642

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9 1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-69642-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/10/2013 5:47:03 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 23

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-69642-3

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/10/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105557- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105557- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-69642-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105557- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-69642-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-69642-3

Comments
No additional comments.

Receipt
The samples were received on 3/7/2013 9:09 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 1.9º C.

General Chemistry
Method(s) Moisture: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired : E-11 (4-5) (600-69642-32).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-69642-32	E-11 (4-5)	Solid	03/06/13 11:38	03/07/13 09:09

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Client Sample ID: E-11 (4-5)
Date Collected: 03/06/13 11:38
Date Received: 03/07/13 09:09

Lab Sample ID: 600-69642-32
Matrix: Solid
Percent Solids: 84.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.511		0.297	0.0305	mg/Kg	☼	05/07/13 09:46	05/07/13 15:44	1
Lead	5.26		0.594	0.125	mg/Kg	☼	05/07/13 09:46	05/07/13 15:44	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16	H	1.0	1.0	%			05/06/13 16:27	1
Percent Solids	84	H	1.0	1.0	%			05/06/13 16:27	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105557/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105612 — **Prep Batch: 105557**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/07/13 09:46	05/07/13 15:39	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/07/13 09:46	05/07/13 15:39	1

Lab Sample ID: LCSSRM 600-105557/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105612 — **Prep Batch: 105557**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	102.1		mg/Kg		99.1	83.6 - 115.5
Lead	76.9	75.97		mg/Kg		98.8	81.3 - 118.7

Lab Sample ID: 600-69642-32 MS — **Client Sample ID: E-11 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105612 — **Prep Batch: 105557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.511		29.7	26.78		mg/Kg	☼	88	75 - 125
Lead	5.26		59.4	65.82		mg/Kg	☼	102	75 - 125

Lab Sample ID: 600-69642-32 MSD — **Client Sample ID: E-11 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105612 — **Prep Batch: 105557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.511		29.4	30.41		mg/Kg	☼	102	75 - 125	13	20
Lead	5.26		58.8	67.11		mg/Kg	☼	105	75 - 125	2	20

Lab Sample ID: 600-69642-32 DU — **Client Sample ID: E-11 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105612 — **Prep Batch: 105557**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.511		0.3320		mg/Kg	☼	42	20
Lead	5.26		5.958		mg/Kg	☼	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-69642-32 DU — **Client Sample ID: E-11 (4-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105521

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16	H	15		%		5	20
Percent Solids	84	H	85		%		0.9	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 105557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-32	E-11 (4-5)	Total/NA	Solid	3050B	
600-69642-32 DU	E-11 (4-5)	Total/NA	Solid	3050B	
600-69642-32 MS	E-11 (4-5)	Total/NA	Solid	3050B	
600-69642-32 MSD	E-11 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-105557/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105557/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-32	E-11 (4-5)	Total/NA	Solid	6010B	105557
600-69642-32 DU	E-11 (4-5)	Total/NA	Solid	6010B	105557
600-69642-32 MS	E-11 (4-5)	Total/NA	Solid	6010B	105557
600-69642-32 MSD	E-11 (4-5)	Total/NA	Solid	6010B	105557
LCSSRM 600-105557/2-A	Lab Control Sample	Total/NA	Solid	6010B	105557
MB 600-105557/1-A	Method Blank	Total/NA	Solid	6010B	105557

General Chemistry

Analysis Batch: 105521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-69642-32	E-11 (4-5)	Total/NA	Solid	Moisture	
600-69642-32 DU	E-11 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Client Sample ID: E-11 (4-5)
Date Collected: 03/06/13 11:38
Date Received: 03/07/13 09:09

Lab Sample ID: 600-69642-32
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105557	05/07/13 09:46	NER	TAL HOU
Total/NA	Analysis	6010B		1	105612	05/07/13 15:44	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105521	05/06/13 16:27	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-69642-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1 of 5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-21(0-0.5)	3.5.13		S	4oz	-	1		X											
2	MW-21 (0.5-2)	↓		↓	↓	↓	↓		X											HOLD
3	MW-21 (2-4)								X											HOLD
4	MW-21 (4-5)								X											HOLD
5	SCO-12(0.0.5)								X											
6	SCO-1265-2)								X											HOLD
7	SCO-12(2-4)								X											HOLD
8	SCO-12(4-5)								X											HOLD
9	MW-22(0-0.5)								X											
10	MW-22 (0.5-2)	↓		↓	↓	↓	↓		X											HOLD

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by:	Date	Relinquished by:	Date	Relinquished by:	Date
Carolyn Sexton	3.6.13	[signature]	3/6/13		
Company Name: PBW	Time 1500	Company Name: TA	Time 1730	Company Name:	Time
Received by: [signature]	Date 3/6/13	Received by:	Date	Received by: [signature]	Date 3/07/13
Company Name: TA	Time 1810	Company Name:	Time	Company Name: TAH	Time 0909

5/10/2013

Page 18 of 23

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2 of 5

☐ TestAmerica Austin - 14500 Summit Drive, A-100 Austin, Texas 78728
☒ TestAmerica Houston - 6310 Rothway Street, Houston, Texas 77040
☐ TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404
☐ TestAmerica Corpus Christi - 1733 NPID, Corpus Christi, Texas 78408
☐ TestAmerica Nashville - 2960 Foster Creighton Dr., Nashville, TN 37204
☐ Other _____

Customer Information		Project Information		Analyses / Method Requested
P.O.	1755	Project Name	Exide	A. Lead
W.O.		Lab Number		B. Lead & Cadmium
Company	PBW	Bill To		C.
Send Report To:	Will Vienne	Invoice Attn		D.
Address:	2201 Double Creek Dr. Ste 4004	Address:		E.
City/State/Zip	Round Rock, TX 78664	City/State/Zip		
Phone	512.671.3434	Phone		
Fax		Fax		

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	K	L	Comments
1	MW-22(2-4)	3.5.13		S	4oz	—	1		X											HOLD
2	MW-22(4-5)								X											HOLD
3	ECO-11(0-0.5)								X											
4	ECO-11(0.5-2)								X											HOLD
5	ECO-11(2-4)								X											HOLD
6	ECO-1(4-5)								X											HOLD
7	2012-NDA-1(4-5)							X												
8	2012-NDA-1(5-6)	↓		↓	↓	↓	↓	X												HOLD
9																				
10																				

Shipment Method: | Airbill No.: | Required Turnaround: 1 Day

Relinquished by: Carolyn Sexton	Date 3.6.13	Relinquished by: MMcGraw	Date 3/7/13	Relinquished by: JP	Date
Company Name: PBW	Time 1500	Company Name: TAL	Time 1730	Company Name:	Time
Received by: MMcGraw	Date 3/7/13	Received by:	Date	Received by:	Date 03/07/13
Company Name: TAL	Time 1500	Company Name:	Time	Company Name: TAH	Time 0909

5/10/2013

Page 19 of 23

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

NO. 44209

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	BILLING INFORMATION
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
PHONE: 512. 671. 3434	ADDRESS:
FAX:	PHONE:
	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	SCC-11A (0-0.5)*	3.6.13	900	S	4oz	—	1		X	*MS-MSD
	SCC-11A (0.5-2)		901						X	HOLD
	SCC-11A (2-3)		902						X	HOLD
	SCC-11 (2-4)		930						X	
	Dup 4		931					X		
	2012-SL-1 (4-5)		1000					X		HOLD
	2012-SL-1 (5-6)		1004						X	
	E-11A (0-0.5)		1100						X	HOLD
	E-11A (0.5-2)		1101						X	HOLD
	E-11A (2-4)		1102						X	HOLD
	E-11A (4-5)		1103						X	HOLD

ANALYSIS/METHOD REQUEST

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAL	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAL	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Polumbant / TAH	TIME 0900

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471

Houston

5/10/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide / 1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock, TX 78664	BILL TO: ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	Lead & Cadmium	REMARKS/PRECAUTIONS.
	Σ-11 (0.5-2)	3.6.13	1136	S	4oz	—	1	X		
	Σ-11 (2-4)		1137					X		HOLD
	Σ-11 (4-5)		1138					X		HOLD
	Σ-15A (0-0.5)		1200						X	
	Σ-15A (0.5-2)		1201						X	HOLD
	Σ-15A (2-4)		1202						X	HOLD
	Σ-15A (4-5)		1203						X	HOLD
	MW-29 (0-0.5)		1349						X	
	MW-29 (0.5-2)		1350						X	HOLD
	ECO-3 (0.5-2)		1417					X		
	ECO-3 (2-3)		1418					X		HOLD

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:
REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE: McCarver	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TR	TIME 1900	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: McCarver	3/6/13	SIGNATURE:		SIGNATURE: Stellamberst	03/07/13
PRINTED NAME/COMPANY: TR	TIME 1500	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pelumbari / TMH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.247
Houston

Page 545 No. 44289

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PBW	PROJECT NAME/NUMBER: Exide/1755
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr Ste 4004 Round Rock TX 78664	BILL TO:
	ADDRESS:
PHONE: 512.671.3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Lead	ANALYSIS/METHOD REQUEST: Lead + Cadmium	REMARKS/PRECAUTIONS.
	EC0-7 (0.5-2)	3.6.13	1440	S	4oz	—	1	X		
	EC0-7 (2-3)	↓	1441	↓	↓	↓	↓	X		HOLD
	EC0-7A (0-0.5)		1459						X	
	EC0-7A (0.5-2)		1500						X	HOLD
	EC0-7A (2-3)		1501						X	HOLD
	Dup-5		1502						X	

SAMPLER: R. Russell
SHIPMENT METHOD:
AIRBILL NO.:

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☐ RUSH TAT (MAY REQUIRE SURCHARGE) 1 Day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Carolyn Sexton	3.6.13	SIGNATURE:	3/6/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1500	PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	3/6/13	SIGNATURE:		SIGNATURE:	03/07/13
PRINTED NAME/COMPANY: TAR	TIME 1730	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulvinghast / TAH	TIME 0909

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: 361.289.2471
Houston

5/10/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-69642-3

Login Number: 69642

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9 1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70120-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 5:35:37 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 15
QC Sample Results 16
Default Detection Limits 18
QC Association Summary 19
Lab Chronicle 21
Certification Summary 24
Chain of Custody 25
Receipt Checklists 28

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70120-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/28/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120
Reviewer Name: TWR	Prep Batch Number(s): 600-101869- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120
Reviewer Name: TWR	Prep Batch Number(s): 600-101869- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120
Reviewer Name: TWR	Prep Batch Number(s): 600-101869- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in sample 70120-2 MS and samples 70120-10 MS and MSD were above acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 70120-2 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
3	The cadmium and lead RPDs between samples 70120-2 and 70120-2 MD and the lead RPD between samples 70120-10 and 70120-10 MD were above acceptance limits due to the non-homogenous nature of the samples.
4	The lead SDLs were elevated in samples 70120-1, 4 and 28 due to the dilution necessary to bring this analyte to within linear dynamic range.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-70120-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70120-1

Comments
The report was revised on 06/18/13 to report Arsenic in sample 28 per client request.

Receipt
The samples were received on 3/16/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70120-1	2013-STB-9 (0.5-1.0)	Solid	03/14/13 15:50	03/16/13 09:19
600-70120-2	2013-STB-10 (0.5-1.1)	Solid	03/14/13 16:00	03/16/13 09:19
600-70120-3	2013-STB-12 (0.5-1.2)	Solid	03/14/13 16:10	03/16/13 09:19
600-70120-4	2012-FWCS-12 (2-2.7)	Solid	03/15/13 08:45	03/16/13 09:19
600-70120-6	2013-MW-17A (0-0.5)	Solid	03/15/13 09:00	03/16/13 09:19
600-70120-10	2013-RO-3 (0-0.5)	Solid	03/15/13 09:15	03/16/13 09:19
600-70120-14	ECO-7B (0-0.5)	Solid	03/15/13 08:21	03/16/13 09:19
600-70120-22	2013-FWCS-1B (1.1-1.6)	Solid	03/15/13 09:25	03/16/13 09:19
600-70120-26	2013-WMU17-1 (0-0.5)	Solid	03/15/13 12:00	03/16/13 09:19
600-70120-27	2013-WMU17-2 (0-0.5)	Solid	03/15/13 12:05	03/16/13 09:19
600-70120-28	2013-AD-2 (0-0.5)	Solid	03/15/13 13:40	03/16/13 09:19

Client Sample ID: 2013-STB-9 (0.5-1.0)

Lab Sample ID: 600-70120-1

Date Collected: 03/14/13 15:50
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 92.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	24.9		0.249	0.0255	mg/Kg	☼	03/18/13 10:44	03/18/13 15:59	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2640		4.98	1.04	mg/Kg	☼	03/18/13 10:44	03/18/13 17:28	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	92		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-STB-10 (0.5-1.1)

Lab Sample ID: 600-70120-2

Date Collected: 03/14/13 16:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 83.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.50		0.280	0.0287	mg/Kg	☼	03/18/13 10:44	03/18/13 16:02	1
Lead	137		0.560	0.117	mg/Kg	☼	03/18/13 10:44	03/18/13 16:02	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	83		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-STB-12 (0.5-1.2)

Lab Sample ID: 600-70120-3

Date Collected: 03/14/13 16:10
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 93.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	103		0.244	0.0251	mg/Kg	☼	03/18/13 10:44	03/18/13 16:11	1
Lead	1070		0.489	0.103	mg/Kg	☼	03/18/13 10:44	03/18/13 16:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	94		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2012-FWCS-12 (2-2.7)

Lab Sample ID: 600-70120-4

Date Collected: 03/15/13 08:45
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 82.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.09		0.300	0.0308	mg/Kg	☼	03/18/13 10:44	03/18/13 16:13	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31000		12.0	2.52	mg/Kg	☼	03/18/13 10:44	03/18/13 17:30	20

Client Sample ID: 2012-FWCS-12 (2-2.7)

Lab Sample ID: 600-70120-4

Date Collected: 03/15/13 08:45
Matrix: Solid
Date Received: 03/16/13 09:19

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	83		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-MW-17A (0-0.5)

Lab Sample ID: 600-70120-6

Date Collected: 03/15/13 09:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 80.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.921		0.307	0.0315	mg/Kg	☼	03/18/13 10:44	03/18/13 16:16	1
Lead	279		0.614	0.129	mg/Kg	☼	03/18/13 10:44	03/18/13 16:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	81		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-RO-3 (0-0.5)

Lab Sample ID: 600-70120-10

Date Collected: 03/15/13 09:15
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 78.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.347		0.305	0.0312	mg/Kg	☼	03/18/13 10:44	03/18/13 16:19	1
Lead	26.1		0.609	0.128	mg/Kg	☼	03/18/13 10:44	03/18/13 16:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	78		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: ECO-7B (0-0.5)

Lab Sample ID: 600-70120-14

Date Collected: 03/15/13 08:21
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 82.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.48		0.296	0.0304	mg/Kg	☼	03/18/13 10:44	03/18/13 16:36	1
Lead	327		0.592	0.124	mg/Kg	☼	03/18/13 10:44	03/18/13 16:36	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	82		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-FWCS-1B (1.1-1.6)

Lab Sample ID: 600-70120-22

Date Collected: 03/15/13 09:25
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 78.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.783		0.295	0.0302	mg/Kg	☼	03/18/13 10:44	03/18/13 16:41	1
Lead	80.1		0.589	0.124	mg/Kg	☼	03/18/13 10:44	03/18/13 16:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	79		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-WMU17-1 (0-0.5)

Lab Sample ID: 600-70120-26

Date Collected: 03/15/13 12:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 85.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.14		0.288	0.0296	mg/Kg	☼	03/18/13 10:44	03/18/13 16:43	1
Lead	1350		0.577	0.121	mg/Kg	☼	03/18/13 10:44	03/18/13 16:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	86		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-WMU17-2 (0-0.5)

Lab Sample ID: 600-70120-27

Date Collected: 03/15/13 12:05
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 87.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.09		0.266	0.0272	mg/Kg	☼	03/18/13 10:44	03/18/13 16:46	1
Lead	1460		0.531	0.111	mg/Kg	☼	03/18/13 10:44	03/18/13 16:46	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	87		1.0	1.0	%			03/16/13 18:19	1

Client Sample ID: 2013-AD-2 (0-0.5)

Lab Sample ID: 600-70120-28

Date Collected: 03/15/13 13:40
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 89.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	9.62		0.276	0.0283	mg/Kg	☼	03/18/13 10:44	03/18/13 16:49	1
Arsenic	16.8		1.11	0.241	mg/Kg	☼	03/18/13 10:44	03/18/13 16:49	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3770		5.53	1.16	mg/Kg	☼	03/18/13 10:44	03/18/13 17:32	10

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Client Sample ID: 2013-AD-2 (0-0.5)
Date Collected: 03/15/13 13:40
Date Received: 03/16/13 09:19

Lab Sample ID: 600-70120-28
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		1.0	1.0	%			03/16/13 18:19	1
Percent Solids	90		1.0	1.0	%			03/16/13 18:19	1

Qualifiers

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-101869/1-A
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101869

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		03/18/13 10:44	03/18/13 15:48	1
Lead	0.105	U	0.500	0.105	mg/Kg		03/18/13 10:44	03/18/13 15:48	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		03/18/13 10:44	03/18/13 15:48	1

Lab Sample ID: LCSSRM 600-101869/2-A
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101869

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	98.45		mg/Kg		95.6	83.6 - 115.5		
Lead			76.9	80.12		mg/Kg		104.2	81.3 - 118.7		
Arsenic			168	161.5		mg/Kg		96.1	83.3 - 117.3		

Lab Sample ID: 600-70120-2 MS
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-STB-10 (0.5-1.1)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	7.50		28.3	38.64		mg/Kg	☼	110	75 - 125		
Lead	137		56.6	243.9	N	mg/Kg	☼	188	75 - 125		
Arsenic	3.69		56.6	57.35		mg/Kg	☼	95	75 - 125		

Lab Sample ID: 600-70120-2 MSD
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-STB-10 (0.5-1.1)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	7.50		28.0	32.27		mg/Kg	☼	88	75 - 125	18	20
Lead	137		56.0	186.3	N	mg/Kg	☼	87	75 - 125	27	20
Arsenic	3.69		56.0	55.12		mg/Kg	☼	92	75 - 125	4	20

Lab Sample ID: 600-70120-10 MS
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-RO-3 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	0.347		29.3	28.59		mg/Kg	☼	96	75 - 125		
Lead	26.1		58.7	120.8	N	mg/Kg	☼	161	75 - 125		
Arsenic	10.8		58.7	64.68		mg/Kg	☼	92	75 - 125		

Lab Sample ID: 600-70120-10 MSD
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-RO-3 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.347		29.9	29.33		mg/Kg	☼	97	75 - 125	3	20
Lead	26.1		59.8	116.8	N	mg/Kg	☼	152	75 - 125	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-70120-10 MSD
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-RO-3 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	10.8		59.8	65.17		mg/Kg	☼	91	75 - 125	1	20

Lab Sample ID: 600-70120-2 DU
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-STB-10 (0.5-1.1)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	7.50		3.699	F	mg/Kg	☼	68	20
Lead	137		109.3	F	mg/Kg	☼	23	20
Arsenic	3.69		3.535		mg/Kg	☼	4	20

Lab Sample ID: 600-70120-10 DU
Matrix: Solid
Analysis Batch: 101886

Client Sample ID: 2013-RO-3 (0-0.5)
Prep Type: Total/NA
Prep Batch: 101869

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.347		0.4783		mg/Kg	☼	32	20
Lead	26.1		18.88	F	mg/Kg	☼	32	20
Arsenic	10.8		9.913		mg/Kg	☼	9	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-70120-1 DU
Matrix: Solid
Analysis Batch: 101841

Client Sample ID: 2013-STB-9 (0.5-1.0)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.8		7.7		%		1	20
Percent Solids	92		92		%		0.1	20

Lab Sample ID: 600-70120-27 DU
Matrix: Solid
Analysis Batch: 101841

Client Sample ID: 2013-WMU17-2 (0-0.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13		12		%		9	20
Percent Solids	87		88		%		1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 101869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-1	2013-STB-9 (0.5-1.0)	Total/NA	Solid	3050B	
600-70120-1 - DL	2013-STB-9 (0.5-1.0)	Total/NA	Solid	3050B	
600-70120-2	2013-STB-10 (0.5-1.1)	Total/NA	Solid	3050B	
600-70120-2 DU	2013-STB-10 (0.5-1.1)	Total/NA	Solid	3050B	
600-70120-2 MS	2013-STB-10 (0.5-1.1)	Total/NA	Solid	3050B	
600-70120-2 MSD	2013-STB-10 (0.5-1.1)	Total/NA	Solid	3050B	
600-70120-3	2013-STB-12 (0.5-1.2)	Total/NA	Solid	3050B	
600-70120-4	2012-FWCS-12 (2-2.7)	Total/NA	Solid	3050B	
600-70120-4 - DL	2012-FWCS-12 (2-2.7)	Total/NA	Solid	3050B	
600-70120-6	2013-MW-17A (0-0.5)	Total/NA	Solid	3050B	
600-70120-10	2013-RO-3 (0-0.5)	Total/NA	Solid	3050B	
600-70120-10 DU	2013-RO-3 (0-0.5)	Total/NA	Solid	3050B	
600-70120-10 MS	2013-RO-3 (0-0.5)	Total/NA	Solid	3050B	
600-70120-10 MSD	2013-RO-3 (0-0.5)	Total/NA	Solid	3050B	
600-70120-14	ECO-7B (0-0.5)	Total/NA	Solid	3050B	
600-70120-22	2013-FWCS-1B (1.1-1.6)	Total/NA	Solid	3050B	
600-70120-26	2013-WMU17-1 (0-0.5)	Total/NA	Solid	3050B	
600-70120-27	2013-WMU17-2 (0-0.5)	Total/NA	Solid	3050B	
600-70120-28	2013-AD-2 (0-0.5)	Total/NA	Solid	3050B	
600-70120-28 - DL	2013-AD-2 (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-101869/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-101869/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 101886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-1	2013-STB-9 (0.5-1.0)	Total/NA	Solid	6010B	101869
600-70120-1 - DL	2013-STB-9 (0.5-1.0)	Total/NA	Solid	6010B	101869
600-70120-2	2013-STB-10 (0.5-1.1)	Total/NA	Solid	6010B	101869
600-70120-2 DU	2013-STB-10 (0.5-1.1)	Total/NA	Solid	6010B	101869
600-70120-2 MS	2013-STB-10 (0.5-1.1)	Total/NA	Solid	6010B	101869
600-70120-2 MSD	2013-STB-10 (0.5-1.1)	Total/NA	Solid	6010B	101869
600-70120-3	2013-STB-12 (0.5-1.2)	Total/NA	Solid	6010B	101869
600-70120-4	2012-FWCS-12 (2-2.7)	Total/NA	Solid	6010B	101869
600-70120-4 - DL	2012-FWCS-12 (2-2.7)	Total/NA	Solid	6010B	101869
600-70120-6	2013-MW-17A (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-10	2013-RO-3 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-10 DU	2013-RO-3 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-10 MS	2013-RO-3 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-10 MSD	2013-RO-3 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-14	ECO-7B (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-22	2013-FWCS-1B (1.1-1.6)	Total/NA	Solid	6010B	101869
600-70120-26	2013-WMU17-1 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-27	2013-WMU17-2 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-28	2013-AD-2 (0-0.5)	Total/NA	Solid	6010B	101869
600-70120-28 - DL	2013-AD-2 (0-0.5)	Total/NA	Solid	6010B	101869
LCSSRM 600-101869/2-A	Lab Control Sample	Total/NA	Solid	6010B	101869
MB 600-101869/1-A	Method Blank	Total/NA	Solid	6010B	101869

General Chemistry

Analysis Batch: 101841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-1	2013-STB-9 (0.5-1.0)	Total/NA	Solid	Moisture	
600-70120-1 DU	2013-STB-9 (0.5-1.0)	Total/NA	Solid	Moisture	
600-70120-2	2013-STB-10 (0.5-1.1)	Total/NA	Solid	Moisture	
600-70120-3	2013-STB-12 (0.5-1.2)	Total/NA	Solid	Moisture	
600-70120-4	2012-FWCS-12 (2-2.7)	Total/NA	Solid	Moisture	
600-70120-6	2013-MW-17A (0-0.5)	Total/NA	Solid	Moisture	
600-70120-10	2013-RO-3 (0-0.5)	Total/NA	Solid	Moisture	
600-70120-14	ECO-7B (0-0.5)	Total/NA	Solid	Moisture	
600-70120-22	2013-FWCS-1B (1.1-1.6)	Total/NA	Solid	Moisture	
600-70120-26	2013-WMU17-1 (0-0.5)	Total/NA	Solid	Moisture	
600-70120-27	2013-WMU17-2 (0-0.5)	Total/NA	Solid	Moisture	
600-70120-27 DU	2013-WMU17-2 (0-0.5)	Total/NA	Solid	Moisture	
600-70120-28	2013-AD-2 (0-0.5)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-STB-9 (0.5-1.0)

Lab Sample ID: 600-70120-1

Date Collected: 03/14/13 15:50
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 15:59	DCL	TAL HOU
Total/NA	Prep	3050B	DL		101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101886	03/18/13 17:28	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-STB-10 (0.5-1.1)

Lab Sample ID: 600-70120-2

Date Collected: 03/14/13 16:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:02	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-STB-12 (0.5-1.2)

Lab Sample ID: 600-70120-3

Date Collected: 03/14/13 16:10
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2012-FWCS-12 (2-2.7)

Lab Sample ID: 600-70120-4

Date Collected: 03/15/13 08:45
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:13	DCL	TAL HOU
Total/NA	Prep	3050B	DL		101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B	DL	20	101886	03/18/13 17:30	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-MW-17A (0-0.5)

Lab Sample ID: 600-70120-6

Date Collected: 03/15/13 09:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:16	DCL	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Client Sample ID: 2013-MW-17A (0-0.5)

Lab Sample ID: 600-70120-6

Date Collected: 03/15/13 09:00
Matrix: Solid
Date Received: 03/16/13 09:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-RO-3 (0-0.5)

Lab Sample ID: 600-70120-10

Date Collected: 03/15/13 09:15
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: ECO-7B (0-0.5)

Lab Sample ID: 600-70120-14

Date Collected: 03/15/13 08:21
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:36	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-FWCS-1B (1.1-1.6)

Lab Sample ID: 600-70120-22

Date Collected: 03/15/13 09:25
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-WMU17-1 (0-0.5)

Lab Sample ID: 600-70120-26

Date Collected: 03/15/13 12:00
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:43	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Client Sample ID: 2013-WMU17-2 (0-0.5)

Lab Sample ID: 600-70120-27

Date Collected: 03/15/13 12:05
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:46	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Client Sample ID: 2013-AD-2 (0-0.5)

Lab Sample ID: 600-70120-28

Date Collected: 03/15/13 13:40
Matrix: Solid
Date Received: 03/16/13 09:19
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B		1	101886	03/18/13 16:49	DCL	TAL HOU
Total/NA	Prep	3050B	DL		101869	03/18/13 10:44	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	101886	03/18/13 17:32	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	101841	03/16/13 18:19	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAr
THE LEADER IN ENVI

600-70120 Chain of Custody

6/18/2013

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne / Eric Pastor	3/14/13	225369
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr. Ste 4004	(512) 671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Lead	Cadmium	VOC	TPH	Hold	Special Instructions/ Conditions of Receipt
2013 - STB - 9 (0.5-1.0)	3/14/13	1550				X	X						X	X	X				
2013 - STB - 10 (0.5-1.1)		1600				X	X							X	X				
2013 - STB - 12 (0.5-1.2)		1610				X	X							X	X				
2012 - FWCS - 12 (2-2.7)	3/15/13	0845				X	X							X	X				
2012 - FWCS - 12 ~~(2.7)~~ (4-5)		0845				X	X							X	X			X	
2013 - MW-17A (0-0.5)		0900				X	X							X	X				
2013 - MW-17A (0.5-2)		0900				X	X							X	X			X	
2013 - MW-17A (2-4)		0900				X	X							X	X			X	
2013 - MW-17A (4-5)		0900				X	X							X	X			X	
2013 - RO-3 (0-0.5)		0915				X	X							X	X				
2013 - RO-3 (0.5-2)		0915				X	X							X	X			X	
2013 - RO-3 (2-4)		0915				X	X							X	X			X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

TRRP 13

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	3-15-13	1850	1. Received By		
2. Relinquished By			2. Received By	03/16/13	0919
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Foster, Behling & Wheeler	Project Manager: Will Vienne	Date: 3-15-13	Chain of Custody Number: 225387
Address: 2201 Double Creek Dr	Telephone Number (Area Code)/Fax Number: 512-671-3434	Lab Number:	Page 2 of 3
City: Round Rock / State: TX / Zip Code: 78664	Site Contact:	Lab Contact:	
Project Name and Location (State): 1755 Frisco, TX	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Lead	Cadmium	Hold
2013-RO-3 (4-5)	3-15-13	0915				X	X						X	X	X	X
ECO-7B (0-0.5)		0821				X	X						X	X	X	
ECO-7B (0.5-1)		0823				X	X						X	X	X	X
ECO-7B (1-1.5)		0840				X	X						X	X	X	X
ECO-7B (1.5-2)		0845				X	X						X	X	X	X
E-11B (0-0.5)		0945				X	X						X	X	X	
E-11B (0.5-2)		0945				X	X						X	X	X	X
E-11B (2-4)		0945				X	X						X	X	X	X
E-11B (4-5)		0945				X	X						X	X	X	X
2013-FWCS-1B (1.1-1.6)		0925				X	X						X	X	X	
2013-FWCS-1B (1.6-2.1)		0930				X	X						X	X	X	X
2013-FWCS-1B (2.1-2.6)		0945				X	X						X	X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	3-15-13	1750	1. Received By		
2. Relinquished By			2. Received By	03/14/13	0919
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Paston, Behling & Wheeler	Will Vienna	3-15-13	225388
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCE	Analysis: Lead	Cadmium											Hold	Special Instructions/ Conditions of Receipt
2013-FWCS-1B (2.6-3.1)	3-15-13	0955				X	X						X	X	X											X	
2013-WMU17-1 (0-0.5)	3-15-13	1200				X	X						X	X	X											MS	do not hold
2013-WMU17-2 (0-0.5)	3-15-13	1205				X	X						X	X	X												
2013-AD-2 (0-0.5)	3-15-13	1340				X	X						X	X	X												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By: Will Vienna	3.15.13	1850
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By		
2. Received By	03/16/13	0819
3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-1

Login Number: 70120

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-70120-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
3/28/2013 4:45:10 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-70120-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		03/28/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/28/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120-2
Reviewer Name: TWR	Prep Batch Number(s): 600-102067- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 03/28/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120-2
Reviewer Name: TWR	Prep Batch Number(s): 600-102067- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			4
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/28/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-70120-2
Reviewer Name: TWR	Prep Batch Number(s): 600-102067- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank for batch 102067. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	The laboratory selected a sample from another group to perform as the DUP.
4	The continuing calibration blank for analytical batch 102195 on 03/21/13 at 10:00 contained Lead above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the continuing calibration blank; therefore, re-analysis of samples was not performed.
5	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	11/29/2012
Date Prepared:	11/28/2012
Instrument:	Thermo 6500
TALS Batches:	94304,94171(prep)
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.44	25
Antimony	0.231553	0.45	0.475	2.5
Arsenic	0.217923	0.5	0.58	1
Barium	0.011322	0.03	0.03	1
Beryllium	0.014513	0.02	0.02	0.25
Boron	0.385535	0.6	0.885	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.205	100
Chromium	0.050606	0.1	0.11	0.5
Cobalt	0.067622	0.1	0.1	0.5
Copper	0.173703	0.5	0.385	0.5
Iron	2.534007	4	4.285	20
Lead	0.104832	0.2	0.23	0.5
Selenium	0.258884	0.5	0.56	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.38	0.5
Nickel	0.116599	0.15	0.14	1
Silver	0.118848	0.2	0.21	0.5
Sodium	0.885548	2.4	3.225	100
Strontium	0.00252	0.005	0.985	0.25
Thallium	0.276988	0.7	0.71	1.5
Tin	0.08729	0.15	0.16	1
Titanium	0.014529	0.03	0.02	0.5
Vanadium	0.079068	0.15	0.17	0.5
Zinc	0.108432	0.2	0.315	1.5

Job ID: 600-70120-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-70120-2

Comments
No additional comments.

Receipt
The samples were received on 3/16/2013 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: 2012-FWCS-12 (4-5) (600-70120-5).

Method(s) 6010B: The method blank for batch 102067 contained lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The continuing calibration blank for analytical batch 102195 @ 10:00 on 03/21/13 contained Lead above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the continuing calibration blank; therefore, re-analysis of samples was not performed.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-70120-5	2012-FWCS-12 (4-5)	Solid	03/15/13 08:45	03/16/13 09:19

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Client Sample ID: 2012-FWCS-12 (4-5)
Date Collected: 03/15/13 08:45
Date Received: 03/16/13 09:19

Lab Sample ID: 600-70120-5
Matrix: Solid
Percent Solids: 82.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19.1	b ^	0.580	0.122	mg/Kg	☼	03/20/13 12:27	03/21/13 10:35	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			03/20/13 14:50	1
Percent Solids	82		1.0	1.0	%			03/20/13 14:50	1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-102067/1-A
Matrix: Solid
Analysis Batch: 102195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102067

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.1930	J	0.500	0.105	mg/Kg		03/20/13 12:27	03/21/13 10:27	1

Lab Sample ID: LCSSRM 600-102067/2-A
Matrix: Solid
Analysis Batch: 102195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102067

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	73.68		mg/Kg		95.8	81.3 - 118.7

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Metals

Prep Batch: 102067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-5	2012-FWCS-12 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-102067/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-102067/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 102195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-5	2012-FWCS-12 (4-5)	Total/NA	Solid	6010B	102067
LCSSRM 600-102067/2-A	Lab Control Sample	Total/NA	Solid	6010B	102067
MB 600-102067/1-A	Method Blank	Total/NA	Solid	6010B	102067

General Chemistry

Analysis Batch: 102097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-70120-5	2012-FWCS-12 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Client Sample ID: 2012-FWCS-12 (4-5)
Date Collected: 03/15/13 08:45
Date Received: 03/16/13 09:19

Lab Sample ID: 600-70120-5
Matrix: Solid
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			102067	03/20/13 12:27	NER	TAL HOU
Total/NA	Analysis	6010B		1	102195	03/21/13 10:35	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	102097	03/20/13 14:50	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-70120-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAr
THE LEADER IN ENVI

600-70120 Chain of Custody

3/28/2013

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne / Eric Pastor	3/14/13	225369
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr. Ste 4004	(512) 671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Lead	Cadmium	VOC	TPH	Hold	Special Instructions/ Conditions of Receipt
2013 - STB - 9 (0.5-1.0)	3/14/13	1550				X	X						X	X	X				
2013 - STB - 10 (0.5-1.1)		1600				X	X							X	X				
2013 - STB - 12 (0.5-1.2)		1610				X	X							X	X				
2012 - FWCS - 12 (2-2.7)	3/15/13	0845				X	X							X	X				
2012 - FWCS - 12 ~~(2.7)~~ (4-5)		0845				X	X							X	X			X	
2013 - MW-17A (0-0.5)		0900				X	X							X	X				
2013 - MW-17A (0.5-2)		0900				X	X							X	X			X	
2013 - MW-17A (2-4)		0900				X	X							X	X			X	
2013 - MW-17A (4-5)		0900				X	X							X	X			X	
2013 - RO-3 (0-0.5)		0915				X	X							X	X				
2013 - RO-3 (0.5-2)		0915				X	X							X	X			X	
2013 - RO-3 (2-4)		0915				X	X							X	X			X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

TRRP 13

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	3-15-13	1850	1. Received By		
2. Relinquished By			2. Received By	03/16/13	0919
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Paster, Behling & Wheeler	Will Vienne	3-15-13	225387
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr	512-671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
1755 Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Lead	Cadmium	Hold
2013-RO-3 (4-5)	3-15-13	0915				X	X						X	X	X	X
ECO-7B (0-0.5)		0821				X	X						X	X	X	
ECO-7B (0.5-1)		0823				X	X						X	X	X	X
ECO-7B (1-1.5)		0840				X	X						X	X	X	X
ECO-7B (1.5-2)		0845				X	X						X	X	X	X
E-11B (0-0.5)		0945				X	X						X	X	X	
E-11B (0.5-2)		0945				X	X						X	X	X	X
E-11B (2-4)		0945				X	X						X	X	X	X
E-11B (4-5)		0945				X	X						X	X	X	X
2013-FWCS-1B (1.1-1.6)		0925				X	X						X	X	X	
2013-FWCS-1B (1.6-2.1)		0930				X	X						X	X	X	X
2013-FWCS-1B (2.1-2.6)		0945				X	X						X	X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Will Vienne	3-15-13	1750			
2. Relinquished By	Date	Time	2. Received By	Date	Time
			[signature]	03/14/13	0919
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3/28/2013

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Paston, Behling & Wheeler	Will Vienna	3-15-13	225388
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide - Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCE	Analysis: Lead	Cadmium												Hold	Special Instructions/ Conditions of Receipt
2013-FWCS-1B (2.6-3.1)	3-15-13	0955				X	X						X	X	X												X	
2013-WMU17-1 (0-0.5)	3-15-13	1200				X	X						X	X	X												**	UFV do not hold
2013-WMU17-2 (0-0.5)	3-15-13	1205				X	X						X	X	X													
2013-AD-2 (0-0.5)	3-15-13	1340				X	X						X	X	X													

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By: Will Vienna	3.15.13	1850
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By		
2. Received By	03/16/13	0819
3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3/28/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-70120-2

Login Number: 70120

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

SITE:	Exide Former Operating Plant Frisco, Texas	
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW) Round Rock, Texas	
EVENT:	APAR Soil Sampling – April 2013	
INTENDED USE:	Affected Property Assessment Report (APAR)	
LABORATORY:	TestAmerica – Houston, TX TLAP Certification T104704223 Work Orders: 600-71390-1, 600-71390-2, 600-71390-3, 600-71454-1, 600-71454-2, 600-71454-3, 600-72120-1, 600-72338-1, 600-72338-2, 600-72338-3, 600-72338-4, and 600-72338-5	
TESTS/ METHODS:	Total Metals (Cd and/or Pb)	SW846 3050B/6010B
	Volatile Organic Compounds (VOC)	SW846 5030B/8260B (40 analytes)
	pH	SW846 9056
	Total Petroleum Hydrocarbons (TPH)	TX 1005 (4 C-ranges)
	Total Petroleum Hydrocarbons (TPH) – Fractionated	TX 1006 (14 C-ranges)
SAMPLES:	72 soil samples, 4 field duplicates, 2 field MS/MSD pairs, 9 laboratory MS/MSD pairs (see Table 1 for a complete listing)	

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS).

QAA completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field QC Blanks
- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory and Field Duplicate Precision

Additionally, QAA used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)
- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for the data usability review are as follows:

- Inorganics: 70-130% spike recovery (and not less than 30% or data is rejected) and ±MQL difference or 30% RPD (for laboratory duplicates) as recommended in TRRP-13
- Organics: 60-140% spike recovery (and not less than 10% or data is rejected) and ±MQL difference or 40% RPD (for laboratory duplicates) as recommended in TRRP-13
- Soil Samples: ± 3x MQL difference (if either result is less than 5x MQL) or 50% RPD (for field duplicates) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier (DQ) and bias code to the results for the affected samples in accordance with TRRP-13. A list of all qualified results and definitions of the qualifier and bias codes are given in Table 2.

GLOSSARY OF TERMS

The following definitions apply for terms related to analyte reporting limits:

MDL (Method Detection Limit) – the minimum concentration of an analyte that the laboratory can measure and report with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by the laboratory for each analyte in a given reagent matrix (water or soil) generally using the procedures specified in 40 CFR Part 136, Appendix B. It is a measure of the concentration an instrument can detect or 'see' in a given reagent matrix. TRRP-13 requires that the laboratory routinely check the MDL for reasonableness.

SDL (Sample Detection Limit) – the MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and taking into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can detect or 'see' in a given sample. For TRRP, non-detects are reported using the SDL. This term was originally called the SQL (Sample Quantitation Limit) before the TRRP rule revisions effective March 19, 2007.

Unadjusted MQL (Method Quantitation Limit) – the lowest non-zero concentration standard in the laboratory's initial calibration curve calculated using the normal aliquot sizes and final volumes prescribed in the analytical method. The unadjusted MQL is reported by the laboratory for each analyte in a given matrix (water or soil). It is a measure of the concentration an instrument can accurately measure in a typical sample. Per TRRP, the Unadjusted MQLs should be below the Levels of Required Performance (LORPs) for purposes of assessment as well as demonstration of conformance with critical Protective Concentration Levels (PCLs).

MQL – the unadjusted MQL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and takes into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can accurately measure in a given sample. Analytes with concentrations above the SDL but below the MQL, though present in the sample, may not be accurately measured and are thus flagged as estimated (J).

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody forms except for Bromomethane by SW-846 8260B, which is reported for one soil sample and the 14 TPH fractions by TX1006, which are reported for one soil sample. For Bromomethane, the laboratory's recertification is in progress for this analyte pending TCEQ

action. The results are validated and reported as part of a suite of analytes for the method. Per TRRP-13, the reviewer qualified the one result for Bromomethane as not accredited - single analyte in a multi-analyte suite (X8). For the TPH fractions, The TCEQ does not offer accreditation for these analytes, in this matrix, analyzed by this method. The reviewer qualified all results for the TPH fractions as not offered for accreditation (X7). A copy of the applicable pages of the laboratory's National Environmental Laboratory Accreditation Program (NELAP) certificate valid during the period in which the laboratory generated the data in this report is included in Attachment 1 to this DUS.

USABILITY SUMMARY

1. Usability of Unqualified Non-Detects – Non-detects are reported at the sample detection limit (SDL) as required per TRRP. Additionally, according to the LRC, an MDL study was performed for each analyte and the MDLs were checked for reasonableness for each applicable analyte. The levels of required performance (LORPs) have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2 or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. As needed per TRRP, the Unadjusted MQL stated by the laboratory is at or below the LORP for each applicable analyte, and thus the analytical methods are appropriate and the results can be used to demonstrate conformance with the criteria.

2. Usability of Qualified Data – There are no major QC deficiencies, and thus all data is usable as qualified for the intended use. As shown in Table 2, the reviewer qualified some detects as biased high (JH) or estimated (J) due to minor QC deficiencies. Detects that are biased high can be used; however, the reported concentration may be high. Detects that are estimated may be either low or high. The reviewer also applied a U-qualifier to the Chloroform and Methylene Chloride detects in the VOC sample (2012-FWFS-9 (4-5)) due to detection of these analytes in the associated laboratory blank. In each case, the analyte should be considered not detected at or above the reported concentration. Additionally for sample 2012-FWFS-9 (4-5), the result for Bromomethane is qualified as not accredited - single analyte in a multi-analyte suite (X8) and the results for the 14 TPH fractions are qualified as not offered for accreditation (X7). QC results are reported for Bromomethane and total TPH and meet the requirements for all of the blanks and spikes. Additionally, the laboratory is accredited for the remaining 39 SW-846 8260B analytes in this matrix, analyzed by this method and for TPH by TX1005. The Bromomethane result is validated and reported as part of a suite of analytes for the method. Finally, results with a laboratory J-flag (i.e., at a concentration between the SDL and MQL) should be considered estimates. The actual value is not expected to exceed the sample MQL.

QAA Reviewer:	Taryn G. Scholz	6/20/13
	(Name)	(Date)

QC PARAMETER	QC OUTCOME
Data Completeness	The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contain all sample results in acceptable format. Minor revisions were required for work orders 600-71454-1, 600-71454-2, 600-71454-3, and 600-72120-1. All revisions are detailed in the laboratory narrative.
Chain-of-Custody	Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. Additionally, the information on the custody records is complete and agrees with that in the field notes and laboratory reports, except as follows: • For job number J71454, five samples (collected at BSB-7) were received that are not listed on the custody record. The laboratory logged in the samples with the correct IDs and sample dates/times as supplied by the sampler from the field notes. • For job number J71454, The laboratory logged in two samples (2013-BSB-10 (4-5) and 2013-BSB-10 (8-10)) with the incorrect time (08:37 and 08:38, respectively, instead of 09:37 and 09:38, respectively, as shown on the custody record). The sample date is correct and this has no effect on the holding time pass/fail status and thus no further action was taken. The reviewer also confirmed that all tests are reported as requested on the custody record and found the following changes: • Several samples are marked “Hold” on the custody record pending results for the first depth interval from that location. Forty-five (45) samples were released for Total Cadmium and/or Total Lead analysis per PBW’s request. The results are reported in work orders 600-71390-2, 600-71454-2, 600-72338-2, 600-72338-3, 600-72338-4, and 600-72338-5. • pH was added for the 21 soil samples in laboratory job number J71390 and the 32 soils samples in laboratory job number J71454 per PBW’s request. The results are reported in work orders 600-71390-3 and 600-71454-3, respectively. TPH-Fractionated was added for sample 2012-FWFS-9 (4-5) per PBW’s request. The results are reported in work order 600-72338-2.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation, except as follows: • The analytical method used for pH measurement (i.e., SW846 9045C) states that the samples should be analyzed as soon as possible, which has been clarified by EPA as 15-minutes per the laboratory narrative. This is only possible if the measurement is made in the field. For the 53 samples with pH reported, the samples were analyzed at the laboratory 10-12 days after collection but with measurement of pH immediately after sample preparation. (The test request was added by PBW 8-9 days after collection.) The reviewer determined that data qualification is not necessary.
Field Procedures	The samples were collected and placed immediately into sterilized jars provided by the laboratory and then into a cooler with ice for overnight delivery to the laboratory.

QC PARAMETER	QC OUTCOME

Field Procedures

(Note that for samples requiring VOC and/or TPH analysis, a sample aliquot was collected using a bulk sampling technique into a dedicated 2-ounce jar with a lined lid that was completely filled and that was frozen upon receipt at the laboratory until preparation and analysis.)

Four field duplicates were collected with the 72 investigative samples along with two field MS/MSD pairs. No field QC blanks (rinsate, trip, etc.) were collected with the samples.

Results Reporting Procedures

The hardcopy analytical results include a Result, MQL (adjusted), and SDL. The EDD includes the MDL, SDL (under the SQL column per previously used terminology) and the MQL, which is not adjusted for sample specific factors.

Results are reported in SU for pH and in mg/kg with dry-weight correction for the remaining analytes. Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

For sample 2012-FWFS-9 (4-5), the VOC analysis required a 10x dilution and the TPH-Fractionated analysis required a 5x dilution due to the nature of the sample matrix and/or high concentration of analyte, and there are one or more non-detects with elevated reporting limits. (The TPH analysis for this sample and the metals analyses for other samples required dilution but only for detects.)

MQLs

The LORPs have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2, or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. The Unadjusted MQLs for the laboratory are at or below the LORPs for each applicable analyte.

MDLs

According to the LRC, an MDL study was performed for each analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of detectability check standards (DCS) for each applicable analyte as required per TRRP-13. (DCS apply for TPH by TX 1005 but are not analyzed for TPH-Fractionated by TX 1006.) Results for the DCS are included in the data packages.

Laboratory Blanks

No analytes are reported above the detection limit in the laboratory blanks, which confirms that no contamination was introduced in the laboratory, except as follows:

Lab	Blank Type	QC Batch	Analyte	Blank Concentration
TestAmerica	Method	104367	Lead	0.2000 J mg/kg
TestAmerica	Method	105191	Chloroform	0.0009134 J mg/kg
TestAmerica	Method	105191	Methylene Chloride	0.01018 mg/kg

Results for samples prepared in the same QC batch as a contaminated method blank may be affected by laboratory contamination. For Lead, all of the associated samples have an analyte concentration well above that in the blank and thus there is no effect on data quality. For Chloroform and Methylene Chloride, the associated VOC sample (2012-FWFS-9 (4-5)) has a detect for each of these analytes at a concentration similar to that in the blank (i.e., within five times for Chloroform and ten times for the common contaminant Methylene Chloride). Thus, the reviewer qualified each result as not detected (U).

Field QC Blanks

No field QC blanks were collected with the samples.

QC PARAMETER | QC OUTCOME

Laboratory Control Spike

The laboratory prepared one laboratory control spike (LCS) for each analytical batch and reported recoveries for all of the analytes for each test except TX1005 (>C28-C35 TPH recovery not reported) and TX1006 (only >C6-C35 recovery reported). The LCS recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

Test	QC Batch	Analyte	LCS Recovery
VOC	105191	Acetone	57%

The LCS recovery is slightly below the limits, which indicates a potential low bias for detects and non-detects. The reviewer qualified the detect for this analyte in the associated sample (i.e., the VOC sample 2012-FWFS-9 (4-5), which was prepared in the same QC batch) as estimated (J) since it is also between the SDL and MQL.

Matrix Spike Recovery

The laboratory prepared one or more matrix spike (MS) and matrix spike duplicate (MSD) with each analytical batch plus a Post Digestion Spike (PDS) with each metals analytical batch. MS/MSD recoveries are reported for the same analytes as the LCS for MS/MSD prepared using a sample from the site, which includes 11 MS/MSD for Total Metals (Cd and/or Pb), as shown in Table 1.

PDS outcomes are given on the LRC but PDS data are not reportable data per TRRP-13. According to the LRC, the PDS met method requirements, which indicates good accuracy for the analysis technique on the given sample matrix. However, in order to better evaluate data quality, the reviewer requested PDS data from TestAmerica for work orders 600-71390-1, 600-71454-2, 600-72338-1, and 600-72338-2 and it was provided as package addenda (see Attachment 2).

The MS/MSD recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

QC Batch	MS/MSD ID	Analyte	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	PDS %Rec
103765	DUP-9	Lead	93.4	80.1	22	49	78
104352	2013-BSB-6 (4-5)	Lead	586	57.3	4350	-146	NA
105076	2013-B4R-A (0-0.5)	Lead	187	63.9	297	193	76
105441	2013-AD-2 (2-4)	Lead	114	58.3	7	277	104

NA – Not available. The PDS for this batch was performed using another sample.

In each case, the spike amount is less than the amount in the unspiked parent sample, and thus the data are considered inconclusive and the MS/MSD recovery check is waived. Note that the PDS recoveries and the recoveries for the remaining seven MS/MSD are within the criteria.

Surrogate Recovery

The laboratory used one or more surrogates for each organic analysis. (Note that the surrogate recovery for TPH-Fractionated by TX 1006 is reported under TPH by TX 1005, since the TX 1006 analysis is performed using the sample extract from TX 1005.) Surrogate recoveries are within the laboratory limits, which indicates that the overall accuracy of the preparation and analysis technique is good for each particular sample, except as follows:

QC PARAMETER	QC OUTCOME
Surrogate Recovery	• For sample 2012-FWFS-9 (4-5)), the surrogate recovery for one of the four VOC surrogates (4-Bromofluorobenzene) is above the laboratory limits (57-140%) at 154%. This is a single deficiency for a multi-surrogate analysis and thus data qualification is not required per TRRP-13. • For sample 2012-FWFS-9 (4-5), the surrogate recovery for the only TPH surrogate (o-Terphenyl) is above the laboratory limits (70-130%) at 358%. This indicates a potential high bias for detects. The reviewer qualified all detects for both the TX1005 analysis and the TX1006 analysis, which is performed using the TX1005 extract, as estimated with a high bias (JH).
Laboratory Duplicate Precision	The laboratory prepared one or more Matrix Spike Duplicate (MSD) with each analytical batch for each test except pH. Additionally, the laboratory prepared one Matrix Duplicate (MD) with each metals and pH analytical batch. RPDs are reported for the same analytes as the LCS for MSD/MD prepared using a sample from the site, which includes 11 MSD and MD for Total Metals (Cd and/or Pb) and six MD for pH, as shown in Table 1. The MSD and MD RPDs are within the TRRP recommended criteria, which indicates good precision for the preparation and analysis technique fro the given sample matrix, except as follows:

QC Batch	MSD/MD ID	Analyte	MSD RPD	MD RPD
103765	DUP-9	Lead	P (17%)	72%
104053	2013-BSB-7 (0.9-2)	Lead	P (10%)	101%
104352	2013-BSB-6 (4-5)	Lead	142%	P (18%)
104352	2013-BSB-10 (2-4)	Lead	P (4%)	35%
104386	2013-BSB-9 (2-4)	Lead	P (5%)	55%
105076	2013-B4R-A (0-0.5)	Lead	P (19%)	63%
105441	2013-AD-2 (2-4)	Lead	79%	P (26%)

In each case, either the MSD RPD or MD RPD is within control. Thus, a batch effect is not indicated and the reviewer qualified the detect for Lead in the parent sample only as estimated (J).

Field Duplicate Precision	Four field duplicates were collected with the samples and analyzed for Total Cadmium, Total Lead, and/or pH. Results are summarized in Table 3. The RPDs (or the absolute difference between results for concentrations <5xMQL and for non-detects) are within the TRRP criteria, which indicates good precision for the sampling, preparation, and analysis technique on the given sample matrix, except as follows: • The results for Total Cadmium and Total Lead are outside the criteria for the pair collected at 2013-BSB-9 (0.9-2). • The results for Total Lead are outside the criteria for the pairs collected at 2013-AD-2 (0.5-2) and 2013-B4R-A (0-0.5). The reviewer qualified the detects for these metals in the original sample and field duplicate sample as estimated with an unknown bias (J).
Instrument Tuning	According to the LRC, instrument tuning met method requirements for the samples, which indicates the GC/MS instrument was properly set up to identify analytes.

QC PARAMETER	QC OUTCOME
Instrument Calibration	According to the LRC, initial and continuing calibration data met method requirements for all reported results, which indicates the instruments were properly calibrated to measure analyte concentrations, except as follows: • For the continuing calibration blank (CCB) analyzed 4/19/13 at 19:31, Lead was detected above the MDL but below the MQL. All of the associated samples have Lead detected well above the MQL (greater than 10x), and thus data qualification is not necessary.
Instrument Performance	According to the LRC, the serial dilution and ICP interference check samples met method requirements, which indicates that no significant matrix interference exists, except as follows: • The %difference for Lead for the serial dilution (SD) prepared using sample 2013-B4R-A (0-0.5) (laboratory ID 600-72338-023) is above the acceptance limit due to matrix interference. SD outcomes are given on the LRC but SD data are not reportable data per TRRP-13. Since the limit used by the laboratory (10%) differs from the data quality criteria (30%) and in order to better evaluate data quality, the reviewer requested SD data from TestAmerica for work orders 600-71390-1, 600-71454-2, 600-72338-1, and 600-72338-2 and it was provided as package addenda (see Attachment 2). For sample 2013-B4R-A (0-0.5), the %difference for Lead (15%) is above the method limit used by the laboratory (10%) but within the data quality criteria (30%), and thus no data qualification is required.
Internal Standards	According to the LRC, area counts and retention times were within method requirements.

TABLE 1
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – APRIL 2013

SAMPLES ANALYZED

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch					
						Total Cd	Total Pb	VOC	pH	TPH	TPH-Fract.
600-71390-001	2013-BSB-9 (0.9-2)	INV	Solid	4/10/13	1	103765	103765	NA	104514	NA	NA
600-71390-001	2013-BSB-9 (0.9-2)	MD	Solid	4/10/13	1	NA	NA	NA	104514	NA	NA
600-71390-002	2013-BSB-9 (2-4)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-002	2013-BSB-9 (2-4)	MD	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-002	2013-BSB-9 (2-4)	MS	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-002	2013-BSB-9 (2-4)	MSD	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-003	2013-BSB-9 (4-5)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-004	2013-BSB-9 (8-10)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-005	2013-BSB-9 (11)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-006	DUP-9	FD	Solid	4/10/13	1	103765	103765	NA	104514	NA	NA
600-71390-006	DUP-9	MD	Solid	4/10/13	1	103765	103765	NA	NA	NA	NA
600-71390-006	DUP-9	MS	Solid	4/10/13	1	103765	103765	NA	NA	NA	NA
600-71390-006	DUP-9	MSD	Solid	4/10/13	1	103765	103765	NA	NA	NA	NA
600-71390-007	2013-BSB-8 (0.9-2)	INV	Solid	4/10/13	1	103765	103765	NA	104514	NA	NA
600-71390-008	2013-BSB-8 (2-4)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-008	2013-BSB-8 (2-4)	MD	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-008	2013-BSB-8 (2-4)	MS	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-008	2013-BSB-8 (2-4)	MSD	Solid	4/10/13	1	104386	104386	NA	NA	NA	NA
600-71390-009	2013-BSB-8 (4-5)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-010	2013-BSB-8 (8-10)	INV	Solid	4/10/13	1	104386	NA	NA	104514	NA	NA
600-71390-010DL	2013-BSB-8 (8-10)	INV	Solid	4/10/13	50	NA	104386	NA	NA	NA	NA
600-71390-011	2013-BSB-8 (11)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-011	2013-BSB-8 (11)	MD	Solid	4/10/13	1	NA	NA	NA	104514	NA	NA
600-71390-012	2013-BSB-3 (0.9-2)	INV	Solid	4/10/13	1	103765	103765	NA	104514	NA	NA
600-71390-013	2013-BSB-3 (2-4)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-014	2013-BSB-3 (4-5)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-015	2013-BSB-3 (8-10)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-016	2013-BSB-3 (11)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-017	2013-BSB-4 (0.9-2)	INV	Solid	4/10/13	1	103765	103765	NA	104514	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch					
						Total Cd	Total Pb	VOC	pH	TPH	TPH-Fract.
600-71390-018	2013-BSB-4 (2-4)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-019	2013-BSB-4 (4-5)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-020	2013-BSB-4 (8-10)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71390-021	2013-BSB-4 (11)	INV	Solid	4/10/13	1	104386	104386	NA	104514	NA	NA
600-71454-001	2013-BSB-6 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-001	2013-BSB-6 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-001	2013-BSB-6 (0.9-2)	MD	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-001	2013-BSB-6 (0.9-2)	MS	Solid	4/11/13	1	103879	103879	NA	NA	NA	NA
600-71454-002	2013-BSB-6 (2-4)	MSD	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-003	2013-BSB-6 (4-5)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-003	2013-BSB-6 (4-5)	MD	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-003	2013-BSB-6 (4-5)	MS	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-003	2013-BSB-6 (4-5)	MSD	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-004	2013-BSB-6 (8-10)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-005	2013-BSB-6 (11.1')	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-006	2013-BSB-10 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-007	2013-BSB-10 (2-4)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-007	2013-BSB-10 (2-4)	MD	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-007	2013-BSB-10 (2-4)	MS	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-007	2013-BSB-10 (2-4)	MSD	Solid	4/11/13	1	104352	104352	NA	NA	NA	NA
600-71454-008	2013-BSB-10 (4-5)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-009	2013-BSB-10 (8-10)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-010	2013-BSB-10 (11.4)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-011	2013-BSB-2 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-011	2013-BSB-2 (0.9-2)	MD	Solid	4/11/13	1	NA	NA	NA	104426	NA	NA
600-71454-012	2013-BSB-2 (2-4)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-013	2013-BSB-2 (4-5)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-014	2013-BSB-2 (8-10)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-015	2013-BSB-2 (11.2)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-016	2013-BSB-5 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-017	2013-BSB-5 (2-4)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-018	2013-BSB-5 (4-5)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-019	2013-BSB-5 (8-10)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-020	2013-BSB-5 (11.2)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-021	2013-BSB-1 (0.9-2)	INV	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch					
						Total Cd	Total Pb	VOC	pH	TPH	TPH-Fract.
600-71454-021	2013-BSB-1 (0.9-2)	MD	Solid	4/11/13	1	NA	NA	NA	104426	NA	NA
600-71454-022	2013-BSB-1 (2-4)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-023	2013-BSB-1 (4-5)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-024	2013-BSB-1 (8-10)	INV	Solid	4/11/13	1	104352	NA	NA	104426	NA	NA
600-71454-024DL	2013-BSB-1 (8-10)	INV	Solid	4/11/13	20	NA	104352	NA	NA	NA	NA
600-71454-025	2013-BSB-1 (11.6)	INV	Solid	4/11/13	1	104352	104352	NA	104426	NA	NA
600-71454-026	DUP-10	FD	Solid	4/11/13	1	103879	103879	NA	104426	NA	NA
600-71454-027	2013-BSB-1 (6.3-7.7)	INV	Solid	4/11/13	1	104367	NA	NA	104426	NA	NA
600-71454-027DL	2013-BSB-1 (6.3-7.7)	INV	Solid	4/11/13	10	NA	104367	NA	NA	NA	NA
600-71454-028	2013-BSB-7 (0.9-2)	INV	Solid	4/10/13	1	104053	104053	NA	104426	NA	NA
600-71454-028	2013-BSB-7 (0.9-2)	MD	Solid	4/10/13	1	104053	104053	NA	NA	NA	NA
600-71454-028	2013-BSB-7 (0.9-2)	MS	Solid	4/10/13	1	104053	104053	NA	NA	NA	NA
600-71454-028	2013-BSB-7 (0.9-2)	MSD	Solid	4/10/13	1	104053	104053	NA	NA	NA	NA
600-71454-029	2013-BSB-7 (2-4)	INV	Solid	4/10/13	1	104367	104367	NA	104426	NA	NA
600-71454-030	2013-BSB-7 (4-5)	INV	Solid	4/10/13	1	104367	104367	NA	104426	NA	NA
600-71454-031	2013-BSB-7 (8-10)	INV	Solid	4/10/13	1	104367	104367	NA	104426	NA	NA
600-71454-031	2013-BSB-7 (8-10)	MD	Solid	4/10/13	1	NA	NA	NA	104426	NA	NA
600-71454-032	2013-BSB-7 (11')	INV	Solid	4/10/13	1	104367	104367	NA	104426	NA	NA
600-72120-001	D-11 (0.5-1.0)	INV	Solid	4/22/13	1	NA	104814	NA	NA	NA	NA
600-72120-002	E-11A (0.5-1.0)	INV	Solid	4/22/13	1	NA	104814	NA	NA	NA	NA
600-72120-003	D-12 (0.5-1.0)	INV	Solid	4/22/13	1	NA	104814	NA	NA	NA	NA
600-72120-004	E-12 (0.5-1.0)	INV	Solid	4/22/13	1	NA	104814	NA	NA	NA	NA
600-72120-005	E-13 (0.5-1.0)	INV	Solid	4/23/13	1	NA	104814	NA	NA	NA	NA
600-72120-006	E-14 (0.5-1.0)	INV	Solid	4/23/13	1	NA	104814	NA	NA	NA	NA
600-72120-007	E-15 (0.5-1.0)	INV	Solid	4/23/13	1	NA	104814	NA	NA	NA	NA
600-72338-001	2012-BSA-2 (2-4)	INV	Solid	4/29/13	1	105048	105048	NA	NA	NA	NA
600-72338-003	E-11 (5-7)	INV	Solid	4/29/13	1	105735	NA	NA	NA	NA	NA
600-72338-003	E-11 (5-7)	MD	Solid	4/29/13	1	105735	NA	NA	NA	NA	NA
600-72338-003	E-11 (5-7)	MS	Solid	4/29/13	1	105735	NA	NA	NA	NA	NA
600-72338-003	E-11 (5-7)	MSD	Solid	4/29/13	1	105735	NA	NA	NA	NA	NA
600-72338-004	E-11 (7-9)	INV	Solid	4/29/13	1	105993	NA	NA	NA	NA	NA
600-72338-004	E-11 (7-9)	MD	Solid	4/29/13	1	105993	NA	NA	NA	NA	NA
600-72338-004	E-11 (7-9)	MS	Solid	4/29/13	1	105993	NA	NA	NA	NA	NA
600-72338-004	E-11 (7-9)	MSD	Solid	4/29/13	1	105993	NA	NA	NA	NA	NA
600-72338-005	E-11 (9-10.9)	INV	Solid	4/29/13	1	106288	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch					
						Total Cd	Total Pb	VOC	pH	TPH	TPH-Fract.
600-72338-006	2013-AD-2 (0.5-2)	INV	Solid	4/29/13	1	NA	105048	NA	NA	NA	NA
600-72338-007	2013-AD-2 (2-4)	INV	Solid	4/29/13	1	NA	105441	NA	NA	NA	NA
600-72338-007	2013-AD-2 (2-4)	MD	Solid	4/29/13	1	NA	105441	NA	NA	NA	NA
600-72338-007	2013-AD-2 (2-4)	MS	Solid	4/29/13	1	NA	105441	NA	NA	NA	NA
600-72338-007	2013-AD-2 (2-4)	MSD	Solid	4/29/13	1	NA	105441	NA	NA	NA	NA
600-72338-009	2012-FWFS-9 (2.5-4)	INV	Solid	4/29/13	1	105048	105048	NA	NA	NA	NA
600-72338-010	2012-FWFS-9 (4-5)	INV	Solid	4/29/13	5	NA	NA	NA	NA	105019	105019
600-72338-010DL	2012-FWFS-9 (4-5)	INV	Solid	4/29/13	10	NA	NA	105191	NA	NA	NA
600-72338-011	2012-FWFS-8 (2-4)	INV	Solid	4/29/13	1	NA	105048	NA	NA	NA	NA
600-72338-013	2012-FWFS-6 (2-4)	INV	Solid	4/29/13	1	105048	105048	NA	NA	NA	NA
600-72338-015	2012-FWFS-4 (3-4)	INV	Solid	4/29/13	1	NA	105048	NA	NA	NA	NA
600-72338-017	2013-BS2-1 (0.5-2)	INV	Solid	4/29/13	1	NA	105076	NA	NA	NA	NA
600-72338-020	2013-BS5-1 (0.5-2)	INV	Solid	4/29/13	1	NA	105076	NA	NA	NA	NA
600-72338-023	2013-B4R-A (0-0.5)	INV	Solid	4/29/13	1	105076	105076	NA	NA	NA	NA
600-72338-023	2013-B4R-A (0-0.5)	MD	Solid	4/29/13	1	105076	105076	NA	NA	NA	NA
600-72338-023	2013-B4R-A (0-0.5)	MS	Solid	4/29/13	1	105076	105076	NA	NA	NA	NA
600-72338-023	2013-B4R-A (0-0.5)	MSD	Solid	4/29/13	1	105076	105076	NA	NA	NA	NA
600-72338-027	Dup 11	FD	Solid	4/29/13	1	NA	105076	NA	NA	NA	NA
600-72338-028	Dup 12	FD	Solid	4/29/13	1	105076	105076	NA	NA	NA	NA

DF – Dilution Factor
FD – Field Duplicate
INV – Investigative
MD – Matrix Duplicate
MS – Matrix Spike
MSD – Matrix Spike Duplicate

Field Duplicate Key

Field Duplicate		Original Sample	
DUP-9	600-71390-006	2013-BSB-9 (0.9-2)	600-71390-001
DUP-10	600-71454-026	2013-BSB-5 (0.9-2)	600-71454-016
Dup 11	600-72338-027	2013-AD-2 (0.5-2)	600-72338-006
Dup 12	600-72338-028	2013-B4R-A (0-0.5)	600-72338-023

TABLE 2
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – APRIL 2013

QUALIFIED SAMPLE RESULTS

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	Acetone	0.0483	J	mg/Kg	J	Low LCS recovery (57%); Result is between SDL and MQL
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	Bromomethane	0.0113	U	mg/Kg	X8	none
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	Chloroform	0.0122	J b	mg/Kg	U	Laboratory blank contamination (0.0009134 J mg/kg); Result is between SDL and MQL
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	Methylene Chloride	0.14	b	mg/Kg	U	Laboratory blank contamination (0.01018 mg/kg)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C12-C28	4730		mg/Kg	JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C28-C35	228		mg/Kg	JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	C6-C12	532		mg/Kg	JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	C6-C35	5490		mg/Kg	JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C10-C12 aliphatics	856		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C10-C12 aromatics	62.9	J	mg/Kg	X7, J	High surrogate recovery (358%); Result is between SDL and MQL
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C12-C16 aliphatics	999		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C12-C16 aromatics	684		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C16-C21 aliphatics	1110		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C16-C21 aromatics	737		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C21-C35 aliphatics	126		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C21-C35 aromatics	157		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C6-C35	4810		mg/Kg	X7, JH	High surrogate recovery (358%)
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C6-C8 aliphatics	5.3	U	mg/Kg	X7	none
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C7-C8 aromatics	12.8	J	mg/Kg	X7, J	High surrogate recovery (358%); Result is between SDL and MQL
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C8-C10 aliphatics	67	J	mg/Kg	X7, J	High surrogate recovery (358%); Result is between SDL and MQL
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	>C8-C10 aromatics	14.4	U	mg/Kg	X7	none
2012-FWFS-9 (4-5)	600-72338-010	4/29/13	nC6 Aliphatics	5.58	U	mg/Kg	X7	none
2013-AD-2 (0.5-2)	600-72338-006	4/29/13	Lead	569		mg/Kg	J	Poor field precision (60 RPD), use higher value (from the original sample)
2013-AD-2 (2-4)	600-72338-007	4/29/13	Lead	114		mg/Kg	J	Poor MSD precision (79 RPD)
2013-B4R-A (0-0.5)	600-72338-023	4/29/13	Lead	187		mg/Kg	J	Poor MD precision (63 RPD); Poor field precision (69 RPD), use higher value (from the field duplicate)
2013-BSB-10 (2-4)	600-71454-007	4/11/13	Lead	8.88		mg/Kg	J	Poor MD precision (35 RPD)

Field ID	Lab ID	Sample Date	Analyte	Lab Result		DVQ	QC_Comment
2013-BSB-6 (4-5)	600-71454-003	4/11/13	Lead	586	mg/Kg	J	Poor MSD precision (142 RPD)
2013-BSB-7 (0.9-2)	600-71454-028	4/10/13	Lead	26.8	mg/Kg	J	Poor MD precision (101 RPD)
2013-BSB-9 (0.9-2)	600-71390-001	4/10/13	Cadmium	0.783	mg/Kg	J	Poor field precision (absolute difference >3xMQL), use higher value (from the field duplicate)
2013-BSB-9 (0.9-2)	600-71390-001	4/10/13	Lead	23.6	mg/Kg	J	Poor field precision (120 RPD), use higher value (from the field duplicate)
2013-BSB-9 (2-4)	600-71390-002	4/10/13	Lead	15.7	mg/Kg	J	Poor MD precision (55 RPD)
Dup 11	600-72338-027	4/29/13	Lead	306	mg/Kg	J	Poor field precision (60 RPD), use higher value (from the original sample)
Dup 12	600-72338-028	4/29/13	Lead	382	mg/Kg	J	Poor field precision (69 RPD), use higher value (from the field duplicate)
DUP-9	600-71390-006	4/10/13	Cadmium	2.08	mg/Kg	J	Poor field precision (absolute difference >3xMQL), use higher value (from the field duplicate)
DUP-9	600-71390-006	4/10/13	Lead	93.4	mg/Kg	J	Poor MD precision (72 RPD); Poor field precision (120 RPD), use higher value (from the field duplicate)

Note: In addition to the above results, all detects between the SDL and MQL (i.e., results with a laboratory J-flag) should be considered estimated since the reported concentration is below the calibration range.

J Estimated data; The analyte was detected and identified. The associated numerical value (i.e., the reported sample concentration) is the approximate concentration of the analyte in the sample.

NJ Tentatively identified, estimated data; The analysis indicates the presence of the analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.

NS Not selected; Another result (from a secondary dilution, different analytical method, re-sampling, etc.) is selected for use based on QC outcomes and/or reported concentrations.

R Rejected data; The data is unusable. Serious QC deficiencies make it impossible to verify the absence or presence of this analyte.

U Not detected; The analyte was not detected >5x (10x for common contaminants) the level in an associated blank and thus should be considered not detected above the level of the associated numerical value (i.e., the reported sample concentration).

UJ Estimated data; The analyte was not detected above the reported sample detection limit (SDL). The numerical value of the SDL is estimated and may be inaccurate.

X7 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.

X8 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte in this matrix by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.

H Bias in sample result is likely to be high

L Bias in sample result is likely to be low

NOTE: For multiple QC issues, the reviewer applied the most severe flag. (R >U >NJ >J >JL/JH for detects and R >UJ >UJL for non-detects)

TABLE 3
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – APRIL 2013

FIELD DUPLICATE RESULTS

Field Duplicate	Original Sample	Sample Date	Method	Analyte	Field Duplicate Result			Original Sample Result			RPD	Absolute Difference	3x MQL	Qualified
DUP-9	2013-BSB-9 (0.9-2)	4/10/13	6010B	Cadmium	2.08		mg/Kg	0.783		mg/Kg	NA	1.297	1.23	yes
DUP-9	2013-BSB-9 (0.9-2)	4/10/13	6010B	Lead	93.4		mg/Kg	23.6		mg/Kg	120	NA	2.44	yes
DUP-9	2013-BSB-9 (0.9-2)	4/10/13	9045C	pH	7.75	H	SU	7.75	H	SU	0	NA	0.03	no
DUP-10	2013-BSB-5 (0.9-2)	4/11/13	6010B	Cadmium	0.341		mg/Kg	0.137	J	mg/Kg	NA	0.204	0.85	no
DUP-10	2013-BSB-5 (0.9-2)	4/11/13	6010B	Lead	6.48		mg/Kg	5.28		mg/Kg	20	NA	1.70	no
DUP-10	2013-BSB-5 (0.9-2)	4/11/13	9045C	pH	7.18	H	SU	6.72	H	SU	6.6	NA	0.03	no
Dup 11	2013-AD-2 (0.5-2)	4/29/13	6010B	Lead	306		mg/Kg	569		mg/Kg	60	NA	1.71	yes
Dup 12	2013-B4R-A (0-0.5)	4/29/13	6010B	Cadmium	0.712		mg/Kg	0.181	J	mg/Kg	NA	0.531	0.97	no
Dup 12	2013-B4R-A (0-0.5)	4/29/13	6010B	Lead	382		mg/Kg	187		mg/Kg	69	NA	1.93	yes

Note: The RPD test ($\leq$50%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test ($\leq$ 3x MQL) applies.

ATTACHMENT 1

APPLICABLE PAGES OF THE
LABORATORY ACCREDITATION CERTIFICATE

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183207
2,4-D	TX	8545	10183207
2,4-DB	TX	8560	10183207
Acifluorfen	TX	8505	10183207
Dalapon	TX	8555	10183207
Dicamba	TX	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207
MCPP	TX	7780	10183207
Silvex (2,4,5-TP)	TX	8650	10183207

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
2-Propanol	TX	5065	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acetonitrile	TX	4320	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Benzyl chloride	TX	5635	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromofluoromethane	TX	4590	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Diethyl ether	TX	4725	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184802
Ethyl acetate	TX	4755	10184802
Ethyl methacrylate	TX	4810	10184802
Ethylbenzene	TX	4765	10184802
Ethylene oxide	TX	4795	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methacrylonitrile	TX	4925	10184802
Methyl acrylate	TX	4945	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl methacrylate	TX	4990	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Dinitrobenzene	TX	6155	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Dinitrobenzene	TX	6165	10185805
1,4-Naphthoquinone	TX	6420	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 9038

Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9050

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198808

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9066

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10200609

Method EPA 9071

Analyte	AB	Analyte ID	Method ID

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10201806
Method EPA 9095			
Analyte	**AB**	**Analyte ID**	**Method ID**
Paint Filter Liquids Test	TX	10312	10204203
Method SSA/ASA Part 3:34			
Analyte	**AB**	**Analyte ID**	**Method ID**
Carbon, organic (Walkley-Black)	TX	10340	SSA/ASA Pt 3:34
Method TCEQ 1005			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

ATTACHMENT 2

LABORATORY PACKAGE ADDENDA

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-1

Method Blank - Batch: 600-103765

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-103765/1-A	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/12/2013 0904	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-103765

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	04/12/2013 0906	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	99.36	96.5	83.6 - 115.5	
Lead	76.9	72.91	94.8	81.3 - 118.7	

Post Digestion Spike - Batch: 600-103765

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71390-6	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	04/12/2013 1008	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	2.08	40.8	40.73	95	75 - 125	
Lead	93.4	81.7	157.4	78	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-103765

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71390-6	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	04/12/2013 0918			Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

MSD Lab Sample ID:	600-71390-6	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	04/12/2013 0920			Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	97	97	75 - 125	1	20		
Lead	22	49	75 - 125	17	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-103765

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71390-6	Units:	mg/Kg	MSD Lab Sample ID:	600-71390-6
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/12/2013 0918			Analysis Date:	04/12/2013 0920
Prep Date:	04/11/2013 1524			Prep Date:	04/11/2013 1524
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	2.08	40.1	39.7	40.93		40.43	
Lead	93.4	80.1	79.3	111.0	N	131.9	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-1

Duplicate - Batch: 600-103765

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71390-6	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/12/2013 0916	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	2.08	2.500	19	20	
Lead	93.4	43.89	72	20	F

Serial Dilution - Batch: 600-103765

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71390-6	Analysis Batch:	600-103818	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-103765	Lab File ID:	041213.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	04/12/2013 1011	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/11/2013 1524				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Cadmium	2.08	2.328	NC	10	
Lead	93.4	89.34	4.3	10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-1

Duplicate - Batch: 600-103777

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-71390-7	Analysis Batch:	600-103777	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/11/2013 1558	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	13	13	1	20	
Percent Solids	87	87	0.2	20	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Method Blank - Batch: 600-104352

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-104352/1-A	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/19/2013 1802	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-104352

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	04/19/2013 1804	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	88.40	85.8	83.6 - 115.5	
Lead	76.9	68.52	89.1	81.3 - 118.7	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104352

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71454-3	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	04/19/2013 1813			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

MSD Lab Sample ID:	600-71454-3	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	04/19/2013 1816			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	96	100	75 - 125	9	20		
Lead	4350	-146	75 - 125	142	20	4	4 N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104352

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71454-7	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	04/19/2013 1837			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

MSD Lab Sample ID:	600-71454-7	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	04/19/2013 1839			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	97	97	75 - 125	7	20		
Lead	95	96	75 - 125	4	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104352

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71454-3	Units: mg/Kg	MSD Lab Sample ID:	600-71454-3	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	04/19/2013 1813		Analysis Date:	04/19/2013 1816	
Prep Date:	04/19/2013 1206		Prep Date:	04/19/2013 1206	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.695	27.3	28.7	26.82	29.25
Lead	586	54.7	57.3	2964 4	502.5 4 N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104352

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71454-7	Units: mg/Kg	MSD Lab Sample ID:	600-71454-7	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	04/19/2013 1837		Analysis Date:	04/19/2013 1839	
Prep Date:	04/19/2013 1206		Prep Date:	04/19/2013 1206	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.0308 U	29.7	27.8	28.73	26.84
Lead	8.88	59.4	55.6	65.12	62.29

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Duplicate - Batch: 600-104352

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71454-3	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/19/2013 1811	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.695	0.8449	19	20	
Lead	586	703.7	18	20	

Duplicate - Batch: 600-104352

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71454-7	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	04/19/2013 1834	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.0308	U	0.03365	NC	20	J
Lead	8.88		6.220	35	20	F

Serial Dilution - Batch: 600-104352

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71454-3	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104352	Lab File ID:	B041913.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	04/19/2013 1933	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1206				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Cadmium	0.695	0.7172	NC	10	J
Lead	586	583.1	0.56	10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Method Blank - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-104367/1-A	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	04/19/2013 1936	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.2000	J	0.105	0.500

LCS-Certified Reference Material - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	04/19/2013 1938	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	89.37	86.8	83.6 - 115.5	
Lead	76.9	69.08	89.8	81.3 - 118.7	

Post Digestion Spike - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71795-A-3-D PDS	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/19/2013 2019	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.353	24.5	23.38	94	75 - 125	
Lead	8.28	49.0	53.38	92	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104367

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71795-A-3-F MS	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	04/19/2013 2007			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

MSD Lab Sample ID:	600-71795-A-3-G MSD	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	04/19/2013 2009			Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	98	100	75 - 125	4	20		
Lead	96	99	75 - 125	5	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104367

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71795-A-3-F MS	Analysis Batch:	600-104449	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	042213.asc
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	04/22/2013 1031	Run Type:	DL	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

MSD Lab Sample ID:	600-71795-A-3-G MSD	Analysis Batch:	600-104449	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	042213.asc
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	04/22/2013 1034	Run Type:	DL	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	94	94	75 - 125	2	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104367

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71795-A-3-F MS	Units:	mg/Kg	MSD Lab Sample ID:	600-71795-A-3-G MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/19/2013 2007			Analysis Date:	04/19/2013 2009
Prep Date:	04/19/2013 1318			Prep Date:	04/19/2013 1318
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.353	23.4	24.0	23.28	24.32
Lead	8.28	46.7	48.1	53.32	55.87

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-104367

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-71795-A-3-F MS	Units:	mg/Kg	MSD Lab Sample ID:	600-71795-A-3-G MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	100			Dilution:	100
Analysis Date:	04/22/2013 1031			Analysis Date:	04/22/2013 1034
Prep Date:	04/19/2013 1318			Prep Date:	04/19/2013 1318
Leach Date:	N/A			Leach Date:	N/A
Run Type:	DL			Run Type:	DL

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Lead	15.7	J	46.7	48.1	59.81	61.06

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Duplicate - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71795-A-3-E DU	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	04/19/2013 2004	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.353	0.5198	38	20	
Lead	8.28	10.71	26	20	F

Serial Dilution - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71795-A-3-D SD	Analysis Batch:	600-104394	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	B041913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	04/19/2013 2021	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Cadmium	0.353	0.07843	78	10	J *
Lead	8.28	1.706	79	10	*

Duplicate - Batch: 600-104367

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-71795-A-3-E DU	Analysis Batch:	600-104449	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-104367	Lab File ID:	042213.asc
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	04/22/2013 1029	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/19/2013 1318	Run Type:	DL		
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Lead	15.7	J	12.87	20	20	J

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Duplicate - Batch: 600-103909

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-71454-30	Analysis Batch:	600-103909	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/14/2013 1011	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	8.0	17	71	20	F
Percent Solids	92	83	10	20	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Duplicate - Batch: 600-104356

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-71454-12	Analysis Batch:	600-104356	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2013 1216	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	15	12	20	20	
Percent Solids	85	88	3	20	

Duplicate - Batch: 600-104356

Method: Moisture
Preparation: N/A

Lab Sample ID:	600-71454-24	Analysis Batch:	600-104356	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2013 1216	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	24	22	9	20	
Percent Solids	76	78	3	20	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Method Blank - Batch: 600-105048

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105048/1-A	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/01/2013 0928	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-105048

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/01/2013 0932	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	104.6	101.6	83.6 - 115.5	
Lead	76.9	76.92	100.0	81.3 - 118.7	

Post Digestion Spike - Batch: 600-105048

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72165-C-4-E PDS	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/01/2013 1131	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.0327	U	31.9	26.47	83	75 - 125	
Lead	15.1		63.8	67.36	82	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105048

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72227-B-1-E MS	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	05/01/2013 1100			Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72227-B-1-F MSD	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	05/01/2013 1104			Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	84	94	75 - 125	16	20		
Lead	81	94	75 - 125	18	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105048

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72227-B-1-E MS	Units:	mg/Kg	MSD Lab Sample ID:	600-72227-B-1-F MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/01/2013 1100			Analysis Date:	05/01/2013 1104
Prep Date:	04/30/2013 1345			Prep Date:	04/30/2013 1345
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.0254	U	23.6	24.8	19.74	23.28
Lead	5.14		47.2	49.5	43.20	51.55

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Duplicate - Batch: 600-105048

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72227-B-1-D DU	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	05/01/2013 1049	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.0254	U	0.0240	NC	20	U
Lead	5.14		5.118	0.5	20	

Serial Dilution - Batch: 600-105048

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72165-C-4-E SD ^5	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105048	Lab File ID:	T050113
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/01/2013 1135	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1345				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.0327	U	0.164	NC	10	U
Lead	15.1		17.77	17	10	*

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Method Blank - Batch: 600-105076

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105076/1-A	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/01/2013 1149	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Cadmium	0.0256	U	0.0256	0.250
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-105076

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/01/2013 1153	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	103	109.1	105.9	83.6 - 115.5	
Lead	76.9	76.70	99.7	81.3 - 118.7	

Post Digestion Spike - Batch: 600-105076

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-23	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	05/01/2013 1243	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.181	J	32.3	27.59	85	75 - 125	
Lead	187		64.5	235.9	76	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105076

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72338-23	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	05/01/2013 1212			Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72338-23	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	05/01/2013 1216			Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	82	83	75 - 125	0	20		
Lead	297	193	75 - 125	19	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105076

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72338-23	Units:	mg/Kg	MSD Lab Sample ID:	600-72338-23
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/01/2013 1212			Analysis Date:	05/01/2013 1216
Prep Date:	04/30/2013 1610			Prep Date:	04/30/2013 1610
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD	
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual	
Cadmium	0.181	J	31.9	31.7	26.37		26.40	
Lead	187		63.9	63.5	376.3	N	309.5	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Duplicate - Batch: 600-105076

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-23	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	05/01/2013 1208	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.181	J	0.3886	73	20	
Lead	187		360.4	63	20	F

Serial Dilution - Batch: 600-105076

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-A-23-A SD ^5	Analysis Batch:	600-105127	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-105076	Lab File ID:	T050113
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	05/01/2013 1247	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/30/2013 1610				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Cadmium	0.181	J	0.2226	NC	10	J
Lead	187		214.1	15	10	*

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-2

Method Blank - Batch: 600-105441

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105441/1-A	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/06/2013 1503	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Lead	0.105	U	0.105	0.500

LCS-Certified Reference Material - Batch: 600-105441

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/06/2013 1505	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	76.9	82.13	106.8	81.3 - 118.7	

Post Digestion Spike - Batch: 600-105441

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-A-7-A PDS	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	05/06/2013 1523	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	114	54.6	171.0	104	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105441

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72338-7	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	05/06/2013 1513			Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72338-7	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/06/2013 1515			Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	7	277	75 - 125	79	20	N	N

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105441

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72338-7	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/06/2013 1513		
Prep Date:	05/06/2013 1023		
Leach Date:	N/A		

MSD Lab Sample ID:	600-72338-7
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/06/2013 1515
Prep Date:	05/06/2013 1023
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Lead	114	58.3	57.2	118.2	N	272.7	N

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-2

Duplicate - Batch: 600-105441

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-7	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/06/2013 1510	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	114	148.4	26	20	F

Serial Dilution - Batch: 600-105441

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72338-A-7-A SD ^5	Analysis Batch:	600-105479	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105441	Lab File ID:	A050613.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	05/06/2013 1525	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2013 1023				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Lead	114	116.3	1.9	10	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71390-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/18/2013 4:15:23 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 15
QC Association Summary 16
Lab Chronicle 17
Certification Summary 18
Chain of Custody 19
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71390-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/18/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390
Reviewer Name: TWR	Prep Batch Number(s): 600-103765- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390
Reviewer Name: TWR	Prep Batch Number(s): 600-103765- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/15/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390
Reviewer Name: TWR	Prep Batch Number(s): 600-103765- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 71390-6 MS and 71390-6 MSD were below acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 71390-6 and 71390-6 MD was above acceptance limits due to the non-homogenous nature of the samples.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-71390-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71390-1

Comments
No additional comments.

Receipt
The samples were received on 4/11/2013 9:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-71390-6 DU), (600-71390-6 MS), (600-71390-6 MSD), 2013-BSB-3 (0.9-2) (600-71390-12), 2013-BSB-4 (0.9-2) (600-71390-17), 2013-BSB-8 (0.9-2) (600-71390-7), 2013-BSB-9 (0.9-2) (600-71390-1), DUP-9 (600-71390-6).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71390-1	2013-BSB-9 (0.9-2)	Solid	04/10/13 09:50	04/11/13 09:28
600-71390-6	DUP-9	Solid	04/10/13 00:00	04/11/13 09:28
600-71390-7	2013-BSB-8 (0.9-2)	Solid	04/10/13 10:38	04/11/13 09:28
600-71390-12	2013-BSB-3 (0.9-2)	Solid	04/10/13 14:19	04/11/13 09:28
600-71390-17	2013-BSB-4 (0.9-2)	Solid	04/10/13 14:58	04/11/13 09:28

Client Sample ID: 2013-BSB-9 (0.9-2)

Lab Sample ID: 600-71390-1

Date Collected: 04/10/13 09:50
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 86.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.783		0.272	0.0279	mg/Kg	☼	04/11/13 15:24	04/12/13 09:11	1
Lead	23.6		0.544	0.114	mg/Kg	☼	04/11/13 15:24	04/12/13 09:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			04/11/13 15:58	1
Percent Solids	87		1.0	1.0	%			04/11/13 15:58	1

Client Sample ID: DUP-9

Lab Sample ID: 600-71390-6

Date Collected: 04/10/13 00:00
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 60.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.08		0.408	0.0419	mg/Kg	☼	04/11/13 15:24	04/12/13 09:13	1
Lead	93.4		0.817	0.171	mg/Kg	☼	04/11/13 15:24	04/12/13 09:13	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39		1.0	1.0	%			04/11/13 15:58	1
Percent Solids	61		1.0	1.0	%			04/11/13 15:58	1

Client Sample ID: 2013-BSB-8 (0.9-2)

Lab Sample ID: 600-71390-7

Date Collected: 04/10/13 10:38
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 86.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.782		0.270	0.0277	mg/Kg	☼	04/11/13 15:24	04/12/13 09:22	1
Lead	22.6		0.540	0.113	mg/Kg	☼	04/11/13 15:24	04/12/13 09:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			04/11/13 15:58	1
Percent Solids	87		1.0	1.0	%			04/11/13 15:58	1

Client Sample ID: 2013-BSB-3 (0.9-2)

Lab Sample ID: 600-71390-12

Date Collected: 04/10/13 14:19
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 89.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0279	U	0.272	0.0279	mg/Kg	☼	04/11/13 15:24	04/12/13 09:25	1
Lead	14.8		0.543	0.114	mg/Kg	☼	04/11/13 15:24	04/12/13 09:25	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		1.0	1.0	%			04/11/13 15:58	1
Percent Solids	89		1.0	1.0	%			04/11/13 15:58	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Client Sample ID: 2013-BSB-4 (0.9-2)
Date Collected: 04/10/13 14:58
Date Received: 04/11/13 09:28

Lab Sample ID: 600-71390-17
Matrix: Solid
Percent Solids: 85.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.65		0.280	0.0287	mg/Kg	☼	04/11/13 15:24	04/12/13 09:34	1
Lead	37.9		0.560	0.117	mg/Kg	☼	04/11/13 15:24	04/12/13 09:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			04/11/13 15:58	1
Percent Solids	86		1.0	1.0	%			04/11/13 15:58	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-103765/1-A
Matrix: Solid
Analysis Batch: 103818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103765

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/11/13 15:24	04/12/13 09:04	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/11/13 15:24	04/12/13 09:04	1

Lab Sample ID: LCSSRM 600-103765/2-A
Matrix: Solid
Analysis Batch: 103818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103765

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	99.36		mg/Kg		96.5	83.6 - 115.5
Lead	76.9	72.91		mg/Kg		94.8	81.3 - 118.7

Lab Sample ID: 600-71390-6 MS
Matrix: Solid
Analysis Batch: 103818

Client Sample ID: DUP-9
Prep Type: Total/NA
Prep Batch: 103765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	2.08		40.1	40.93		mg/Kg	☼	97	75 - 125
Lead	93.4		80.1	111.0	N	mg/Kg	☼	22	75 - 125

Lab Sample ID: 600-71390-6 MSD
Matrix: Solid
Analysis Batch: 103818

Client Sample ID: DUP-9
Prep Type: Total/NA
Prep Batch: 103765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	2.08		39.7	40.43		mg/Kg	☼	97	75 - 125	1	20
Lead	93.4		79.3	131.9	N	mg/Kg	☼	49	75 - 125	17	20

Lab Sample ID: 600-71390-6 DU
Matrix: Solid
Analysis Batch: 103818

Client Sample ID: DUP-9
Prep Type: Total/NA
Prep Batch: 103765

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	2.08		2.500		mg/Kg	☼	19	20
Lead	93.4		43.89	F	mg/Kg	☼	72	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-71390-7 DU
Matrix: Solid
Analysis Batch: 103777

Client Sample ID: 2013-BSB-8 (0.9-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13		13		%		1	20
Percent Solids	87		87		%		0.2	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 103765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-1	2013-BSB-9 (0.9-2)	Total/NA	Solid	3050B	
600-71390-6	DUP-9	Total/NA	Solid	3050B	
600-71390-6 DU	DUP-9	Total/NA	Solid	3050B	
600-71390-6 MS	DUP-9	Total/NA	Solid	3050B	
600-71390-6 MSD	DUP-9	Total/NA	Solid	3050B	
600-71390-7	2013-BSB-8 (0.9-2)	Total/NA	Solid	3050B	
600-71390-12	2013-BSB-3 (0.9-2)	Total/NA	Solid	3050B	
600-71390-17	2013-BSB-4 (0.9-2)	Total/NA	Solid	3050B	
LCSSRM 600-103765/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-103765/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 103818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-1	2013-BSB-9 (0.9-2)	Total/NA	Solid	6010B	103765
600-71390-6	DUP-9	Total/NA	Solid	6010B	103765
600-71390-6 DU	DUP-9	Total/NA	Solid	6010B	103765
600-71390-6 MS	DUP-9	Total/NA	Solid	6010B	103765
600-71390-6 MSD	DUP-9	Total/NA	Solid	6010B	103765
600-71390-7	2013-BSB-8 (0.9-2)	Total/NA	Solid	6010B	103765
600-71390-12	2013-BSB-3 (0.9-2)	Total/NA	Solid	6010B	103765
600-71390-17	2013-BSB-4 (0.9-2)	Total/NA	Solid	6010B	103765
LCSSRM 600-103765/2-A	Lab Control Sample	Total/NA	Solid	6010B	103765
MB 600-103765/1-A	Method Blank	Total/NA	Solid	6010B	103765

General Chemistry

Analysis Batch: 103777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-1	2013-BSB-9 (0.9-2)	Total/NA	Solid	Moisture	
600-71390-6	DUP-9	Total/NA	Solid	Moisture	
600-71390-7	2013-BSB-8 (0.9-2)	Total/NA	Solid	Moisture	
600-71390-7 DU	2013-BSB-8 (0.9-2)	Total/NA	Solid	Moisture	
600-71390-12	2013-BSB-3 (0.9-2)	Total/NA	Solid	Moisture	
600-71390-17	2013-BSB-4 (0.9-2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Client Sample ID: 2013-BSB-9 (0.9-2)

Lab Sample ID: 600-71390-1

Date Collected: 04/10/13 09:50
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103765	04/11/13 15:24	NER	TAL HOU
Total/NA	Analysis	6010B		1	103818	04/12/13 09:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103777	04/11/13 15:58	AS	TAL HOU

Client Sample ID: DUP-9

Lab Sample ID: 600-71390-6

Date Collected: 04/10/13 00:00
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 60.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103765	04/11/13 15:24	NER	TAL HOU
Total/NA	Analysis	6010B		1	103818	04/12/13 09:13	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103777	04/11/13 15:58	AS	TAL HOU

Client Sample ID: 2013-BSB-8 (0.9-2)

Lab Sample ID: 600-71390-7

Date Collected: 04/10/13 10:38
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103765	04/11/13 15:24	NER	TAL HOU
Total/NA	Analysis	6010B		1	103818	04/12/13 09:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103777	04/11/13 15:58	AS	TAL HOU

Client Sample ID: 2013-BSB-3 (0.9-2)

Lab Sample ID: 600-71390-12

Date Collected: 04/10/13 14:19
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103765	04/11/13 15:24	NER	TAL HOU
Total/NA	Analysis	6010B		1	103818	04/12/13 09:25	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103777	04/11/13 15:58	AS	TAL HOU

Client Sample ID: 2013-BSB-4 (0.9-2)

Lab Sample ID: 600-71390-17

Date Collected: 04/10/13 14:58
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103765	04/11/13 15:24	NER	TAL HOU
Total/NA	Analysis	6010B		1	103818	04/12/13 09:34	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103777	04/11/13 15:58	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

Test America THE LEADER I

600-71390 Chain of Custody

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date	Chain of Custody Number: 225400
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 2
City: Round Rock / State: TX / Zip Code: 78664	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State): Eagle FRC, Frisco, TX	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-9 (0.9-2)	4-10-13	0950				X							X	
2013-BSB-9 (2-4)		0952												Hold
2013-BSB-9 (4-5)		0954												Hold
2013-BSB-9 (8-10)		0958												Hold
2013-BSB-9 (11)		1000												Hold
DUP-9														
2013-BSB-8 (0.9-2)		1036												
2013-BSB-8 (2-4)		1039												Hold
2013-BSB-8 (4-5)		1040												Hold
2013-BSB-8 (8-10)		1041												Hold
2013-BSB-8 (11)		1042												Hold
2013-BSB-34 (0.9-2)		1419												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/10/13	1530	1. Received By	4/10/13	1530
2. Relinquished By	4/10/13	1930	2. Received By		
3. Relinquished By			3. Received By	04/11/13	0928

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44300

CHAIN OF CUSTODY RECORD

Pg. 2/2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER: 1755, Exide FRC
SEND REPORT TO: Will V	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr. #1004 Round Rock, TX 78664	BILL TO:
	ADDRESS:
PHONE: (512) 671-3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS/METHOD REQUEST: Pb, Cd

LAB JOB NO.

SEAL INTACT
COOLER TEMP
IR GUN ID
INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Pb, Cd	REMARKS/PRECAUTIONS.
	2013-BSB-3 (2-4)	4/10/13	1420	Soil	4oz	Ice	1	X	Hold
	2013-BSB-3 (4-5)	↓	1421	↓	↓	↓	↓	↓	Hold
	2013-BSB-3 (8-10)		1422						Hold
	2013-BSB-3 (11)		1423						Hold
	2013-BSB-4 (0.9-2)		1458						
	2013-BSB-4 (2-4)		1459						Hold
	2013-BSB-4 (4-5)		1500						Hold
	2013-BSB-4 (8-10)		1501						Hold
	2013-BSB-4 (11)	↓	1502	↓	↓	↓	↓	↓	Hold

SAMPLER: R. Russell, P. Ferrell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hour

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:	4/10/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1536	PRINTED NAME/COMPANY: TA	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:		SIGNATURE:	04/11/13
PRINTED NAME/COMPANY: TA	TIME 1530	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Rittenhart / TAH	TIME 0928

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~ Houston
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-1

Login Number: 71390

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71390-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/24/2013 4:59:17 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 16
QC Sample Results 17
Default Detection Limits 19
QC Association Summary 20
Lab Chronicle 22
Certification Summary 26
Chain of Custody 27
Receipt Checklists 29

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71390

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/24/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104386- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			1
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104386- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/23/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71390-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104386- ICP

ER #[1]	DESCRIPTION
1	Due to the non-homogenous nature of the samples the RPD was above the acceptance limits for 71390-2 and 71390-8 MD.
2	Due to the dilution necessary to bring the analyte within the linear dynamic range the lead SDL for sample 71390-10 was elevated.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-71390-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71390-2

Comments
No additional comments.

Receipt
The samples were received on 4/11/2013 9:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
Method(s) 6010B: The following sample(s) required filtration to reduce matrix interferences: (600-71390-2 DU), (600-71390-2 MS), (600-71390-2 MSD), (600-71390-2 PDS), (600-71390-8 DU), (600-71390-8 MS), (600-71390-8 MSD), 2013-BSB-3 (11) (600-71390-16), 2013-BSB-3 (2-4) (600-71390-13), 2013-BSB-3 (4-5) (600-71390-14), 2013-BSB-3 (8-10) (600-71390-15), 2013-BSB-4 (11) (600-71390-21), 2013-BSB-4 (2-4) (600-71390-18), 2013-BSB-4 (4-5) (600-71390-19), 2013-BSB-4 (8-10) (600-71390-20), 2013-BSB-8 (11) (600-71390-11), 2013-BSB-8 (2-4) (600-71390-8), 2013-BSB-8 (4-5) (600-71390-9), 2013-BSB-8 (8-10) (600-71390-10), 2013-BSB-9 (11) (600-71390-5), 2013-BSB-9 (2-4) (600-71390-2), 2013-BSB-9 (4-5) (600-71390-3), 2013-BSB-9 (8-10) (600-71390-4).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71390-2	2013-BSB-9 (2-4)	Solid	04/10/13 09:52	04/11/13 09:28
600-71390-3	2013-BSB-9 (4-5)	Solid	04/10/13 09:54	04/11/13 09:28
600-71390-4	2013-BSB-9 (8-10)	Solid	04/10/13 09:58	04/11/13 09:28
600-71390-5	2013-BSB-9 (11)	Solid	04/10/13 10:00	04/11/13 09:28
600-71390-8	2013-BSB-8 (2-4)	Solid	04/10/13 10:39	04/11/13 09:28
600-71390-9	2013-BSB-8 (4-5)	Solid	04/10/13 10:40	04/11/13 09:28
600-71390-10	2013-BSB-8 (8-10)	Solid	04/10/13 10:41	04/11/13 09:28
600-71390-11	2013-BSB-8 (11)	Solid	04/10/13 10:42	04/11/13 09:28
600-71390-13	2013-BSB-3 (2-4)	Solid	04/10/13 14:20	04/11/13 09:28
600-71390-14	2013-BSB-3 (4-5)	Solid	04/10/13 14:21	04/11/13 09:28
600-71390-15	2013-BSB-3 (8-10)	Solid	04/10/13 14:22	04/11/13 09:28
600-71390-16	2013-BSB-3 (11)	Solid	04/10/13 14:23	04/11/13 09:28
600-71390-18	2013-BSB-4 (2-4)	Solid	04/10/13 14:59	04/11/13 09:28
600-71390-19	2013-BSB-4 (4-5)	Solid	04/10/13 15:00	04/11/13 09:28
600-71390-20	2013-BSB-4 (8-10)	Solid	04/10/13 15:01	04/11/13 09:28
600-71390-21	2013-BSB-4 (11)	Solid	04/10/13 15:02	04/11/13 09:28

Client Sample ID: 2013-BSB-9 (2-4)

Lab Sample ID: 600-71390-2

Date Collected: 04/10/13 09:52
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0287	U	0.280	0.0287	mg/Kg	☼	04/19/13 15:28	04/22/13 13:15	1
Lead	15.7		0.559	0.117	mg/Kg	☼	04/19/13 15:28	04/22/13 13:15	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-9 (4-5)

Lab Sample ID: 600-71390-3

Date Collected: 04/10/13 09:54
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.107	J	0.298	0.0306	mg/Kg	☼	04/19/13 15:28	04/22/13 13:23	1
Lead	13.0		0.596	0.125	mg/Kg	☼	04/19/13 15:28	04/22/13 13:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-9 (8-10)

Lab Sample ID: 600-71390-4

Date Collected: 04/10/13 09:58
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 78.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.31		0.314	0.0322	mg/Kg	☼	04/19/13 15:28	04/22/13 13:26	1
Lead	1830		0.628	0.132	mg/Kg	☼	04/19/13 15:28	04/22/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	79		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-9 (11)

Lab Sample ID: 600-71390-5

Date Collected: 04/10/13 10:00
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 76.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.17		0.315	0.0323	mg/Kg	☼	04/19/13 15:28	04/22/13 13:28	1
Lead	672		0.631	0.132	mg/Kg	☼	04/19/13 15:28	04/22/13 13:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	76		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-8 (2-4)

Lab Sample ID: 600-71390-8

Date Collected: 04/10/13 10:39
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 86.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.93		0.277	0.0284	mg/Kg	☼	04/19/13 15:28	04/22/13 13:31	1
Lead	6.75		0.554	0.116	mg/Kg	☼	04/19/13 15:28	04/22/13 13:31	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	87		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-8 (4-5)

Lab Sample ID: 600-71390-9

Date Collected: 04/10/13 10:40
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 80.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.117	J	0.293	0.0300	mg/Kg	☼	04/19/13 15:28	04/22/13 13:46	1
Lead	70.7		0.585	0.123	mg/Kg	☼	04/19/13 15:28	04/22/13 13:46	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	81		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-8 (8-10)

Lab Sample ID: 600-71390-10

Date Collected: 04/10/13 10:41
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 76.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	10.1		0.319	0.0327	mg/Kg	☼	04/19/13 15:28	04/22/13 13:49	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54600		31.9	6.69	mg/Kg	☼	04/19/13 15:28	04/22/13 14:55	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	77		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-8 (11)

Lab Sample ID: 600-71390-11

Date Collected: 04/10/13 10:42
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 73.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.592		0.340	0.0349	mg/Kg	☼	04/19/13 15:28	04/22/13 13:51	1
Lead	43.3		0.681	0.143	mg/Kg	☼	04/19/13 15:28	04/22/13 13:51	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-8 (11)

Lab Sample ID: 600-71390-11
Date Collected: 04/10/13 10:42
Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-3 (2-4)

Lab Sample ID: 600-71390-13
Date Collected: 04/10/13 14:20
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 83.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.626		0.292	0.0300	mg/Kg	☼	04/19/13 15:28	04/22/13 13:54	1
Lead	206		0.585	0.123	mg/Kg	☼	04/19/13 15:28	04/22/13 13:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	83		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-3 (4-5)

Lab Sample ID: 600-71390-14
Date Collected: 04/10/13 14:21
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 85.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.909		0.272	0.0279	mg/Kg	☼	04/19/13 15:28	04/22/13 13:56	1
Lead	499		0.544	0.114	mg/Kg	☼	04/19/13 15:28	04/22/13 13:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	86		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-3 (8-10)

Lab Sample ID: 600-71390-15
Date Collected: 04/10/13 14:22
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 73.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.509		0.339	0.0348	mg/Kg	☼	04/19/13 15:28	04/22/13 13:58	1
Lead	368		0.678	0.142	mg/Kg	☼	04/19/13 15:28	04/22/13 13:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	74		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-3 (11)

Lab Sample ID: 600-71390-16
Date Collected: 04/10/13 14:23
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 72.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.434		0.339	0.0348	mg/Kg	☼	04/19/13 15:28	04/22/13 14:01	1

Client Sample ID: 2013-BSB-3 (11)

Lab Sample ID: 600-71390-16

Date Collected: 04/10/13 14:23
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 72.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26.1		0.679	0.142	mg/Kg	☼	04/19/13 15:28	04/22/13 14:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	72		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-4 (2-4)

Lab Sample ID: 600-71390-18

Date Collected: 04/10/13 14:59
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.86		0.272	0.0279	mg/Kg	☼	04/19/13 15:28	04/22/13 14:10	1
Lead	1110		0.544	0.114	mg/Kg	☼	04/19/13 15:28	04/22/13 14:10	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-4 (4-5)

Lab Sample ID: 600-71390-19

Date Collected: 04/10/13 15:00
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 81.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.158	J	0.303	0.0311	mg/Kg	☼	04/19/13 15:28	04/22/13 14:12	1
Lead	111		0.606	0.127	mg/Kg	☼	04/19/13 15:28	04/22/13 14:12	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	82		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-4 (8-10)

Lab Sample ID: 600-71390-20

Date Collected: 04/10/13 15:01
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 71.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.411		0.332	0.0340	mg/Kg	☼	04/19/13 15:28	04/22/13 14:15	1
Lead	214		0.663	0.139	mg/Kg	☼	04/19/13 15:28	04/22/13 14:15	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	72		1.0	1.0	%			04/19/13 12:16	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Client Sample ID: 2013-BSB-4 (11)
Date Collected: 04/10/13 15:02
Date Received: 04/11/13 09:28

Lab Sample ID: 600-71390-21
Matrix: Solid
Percent Solids: 71.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.365		0.338	0.0347	mg/Kg	☼	04/19/13 15:28	04/22/13 14:17	1
Lead	19.4		0.676	0.142	mg/Kg	☼	04/19/13 15:28	04/22/13 14:17	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	72		1.0	1.0	%			04/19/13 12:16	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104386/1-A
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104386

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/19/13 15:28	04/22/13 13:10	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/19/13 15:28	04/22/13 13:10	1

Lab Sample ID: LCSSRM 600-104386/2-A
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	93.44		mg/Kg		90.7	83.6 - 115.5
Lead	76.9	71.69		mg/Kg		93.2	81.3 - 118.7

Lab Sample ID: 600-71390-2 MS
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-9 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0287	U	29.6	27.98		mg/Kg	☼	94	75 - 125
Lead	15.7		59.3	65.68		mg/Kg	☼	84	75 - 125

Lab Sample ID: 600-71390-2 MSD
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-9 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.0287	U	28.8	27.22		mg/Kg	☼	95	75 - 125	3	20
Lead	15.7		57.6	62.44		mg/Kg	☼	81	75 - 125	5	20

Lab Sample ID: 600-71390-8 MS
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-8 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.93		26.7	27.60		mg/Kg	☼	96	75 - 125
Lead	6.75		53.4	61.49		mg/Kg	☼	103	75 - 125

Lab Sample ID: 600-71390-8 MSD
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-8 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.93		27.4	27.91		mg/Kg	☼	95	75 - 125	1	20
Lead	6.75		54.9	61.32		mg/Kg	☼	99	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-71390-2 DU
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-9 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	0.0287	U		0.06775	J	mg/Kg	☼			NC	20
Lead	15.7			8.925	F	mg/Kg	☼			55	20

Lab Sample ID: 600-71390-8 DU
Matrix: Solid
Analysis Batch: 104449

Client Sample ID: 2013-BSB-8 (2-4)
Prep Type: Total/NA
Prep Batch: 104386

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	1.93			2.020		mg/Kg	☼			5	20
Lead	6.75			8.440	F	mg/Kg	☼			22	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-71390-11 DU
Matrix: Solid
Analysis Batch: 104356

Client Sample ID: 2013-BSB-8 (11)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	27			26		%				0.3	20
Percent Solids	73			74		%				0.1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-2	2013-BSB-9 (2-4)	Total/NA	Solid	3050B	
600-71390-2 DU	2013-BSB-9 (2-4)	Total/NA	Solid	3050B	
600-71390-2 MS	2013-BSB-9 (2-4)	Total/NA	Solid	3050B	
600-71390-2 MSD	2013-BSB-9 (2-4)	Total/NA	Solid	3050B	
600-71390-3	2013-BSB-9 (4-5)	Total/NA	Solid	3050B	
600-71390-4	2013-BSB-9 (8-10)	Total/NA	Solid	3050B	
600-71390-5	2013-BSB-9 (11)	Total/NA	Solid	3050B	
600-71390-8	2013-BSB-8 (2-4)	Total/NA	Solid	3050B	
600-71390-8 DU	2013-BSB-8 (2-4)	Total/NA	Solid	3050B	
600-71390-8 MS	2013-BSB-8 (2-4)	Total/NA	Solid	3050B	
600-71390-8 MSD	2013-BSB-8 (2-4)	Total/NA	Solid	3050B	
600-71390-9	2013-BSB-8 (4-5)	Total/NA	Solid	3050B	
600-71390-10	2013-BSB-8 (8-10)	Total/NA	Solid	3050B	
600-71390-10 - DL	2013-BSB-8 (8-10)	Total/NA	Solid	3050B	
600-71390-11	2013-BSB-8 (11)	Total/NA	Solid	3050B	
600-71390-13	2013-BSB-3 (2-4)	Total/NA	Solid	3050B	
600-71390-14	2013-BSB-3 (4-5)	Total/NA	Solid	3050B	
600-71390-15	2013-BSB-3 (8-10)	Total/NA	Solid	3050B	
600-71390-16	2013-BSB-3 (11)	Total/NA	Solid	3050B	
600-71390-18	2013-BSB-4 (2-4)	Total/NA	Solid	3050B	
600-71390-19	2013-BSB-4 (4-5)	Total/NA	Solid	3050B	
600-71390-20	2013-BSB-4 (8-10)	Total/NA	Solid	3050B	
600-71390-21	2013-BSB-4 (11)	Total/NA	Solid	3050B	
LCSSRM 600-104386/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104386/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-2	2013-BSB-9 (2-4)	Total/NA	Solid	6010B	104386
600-71390-2 DU	2013-BSB-9 (2-4)	Total/NA	Solid	6010B	104386
600-71390-2 MS	2013-BSB-9 (2-4)	Total/NA	Solid	6010B	104386
600-71390-2 MSD	2013-BSB-9 (2-4)	Total/NA	Solid	6010B	104386
600-71390-3	2013-BSB-9 (4-5)	Total/NA	Solid	6010B	104386
600-71390-4	2013-BSB-9 (8-10)	Total/NA	Solid	6010B	104386
600-71390-5	2013-BSB-9 (11)	Total/NA	Solid	6010B	104386
600-71390-8	2013-BSB-8 (2-4)	Total/NA	Solid	6010B	104386
600-71390-8 DU	2013-BSB-8 (2-4)	Total/NA	Solid	6010B	104386
600-71390-8 MS	2013-BSB-8 (2-4)	Total/NA	Solid	6010B	104386
600-71390-8 MSD	2013-BSB-8 (2-4)	Total/NA	Solid	6010B	104386
600-71390-9	2013-BSB-8 (4-5)	Total/NA	Solid	6010B	104386
600-71390-10	2013-BSB-8 (8-10)	Total/NA	Solid	6010B	104386
600-71390-10 - DL	2013-BSB-8 (8-10)	Total/NA	Solid	6010B	104386
600-71390-11	2013-BSB-8 (11)	Total/NA	Solid	6010B	104386
600-71390-13	2013-BSB-3 (2-4)	Total/NA	Solid	6010B	104386
600-71390-14	2013-BSB-3 (4-5)	Total/NA	Solid	6010B	104386
600-71390-15	2013-BSB-3 (8-10)	Total/NA	Solid	6010B	104386
600-71390-16	2013-BSB-3 (11)	Total/NA	Solid	6010B	104386
600-71390-18	2013-BSB-4 (2-4)	Total/NA	Solid	6010B	104386
600-71390-19	2013-BSB-4 (4-5)	Total/NA	Solid	6010B	104386
600-71390-20	2013-BSB-4 (8-10)	Total/NA	Solid	6010B	104386
600-71390-21	2013-BSB-4 (11)	Total/NA	Solid	6010B	104386

Metals (Continued)

Analysis Batch: 104449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 600-104386/2-A	Lab Control Sample	Total/NA	Solid	6010B	104386
MB 600-104386/1-A	Method Blank	Total/NA	Solid	6010B	104386

General Chemistry

Analysis Batch: 104356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-2	2013-BSB-9 (2-4)	Total/NA	Solid	Moisture	
600-71390-3	2013-BSB-9 (4-5)	Total/NA	Solid	Moisture	
600-71390-4	2013-BSB-9 (8-10)	Total/NA	Solid	Moisture	
600-71390-5	2013-BSB-9 (11)	Total/NA	Solid	Moisture	
600-71390-8	2013-BSB-8 (2-4)	Total/NA	Solid	Moisture	
600-71390-9	2013-BSB-8 (4-5)	Total/NA	Solid	Moisture	
600-71390-10	2013-BSB-8 (8-10)	Total/NA	Solid	Moisture	
600-71390-11	2013-BSB-8 (11)	Total/NA	Solid	Moisture	
600-71390-11 DU	2013-BSB-8 (11)	Total/NA	Solid	Moisture	
600-71390-13	2013-BSB-3 (2-4)	Total/NA	Solid	Moisture	
600-71390-14	2013-BSB-3 (4-5)	Total/NA	Solid	Moisture	
600-71390-15	2013-BSB-3 (8-10)	Total/NA	Solid	Moisture	
600-71390-16	2013-BSB-3 (11)	Total/NA	Solid	Moisture	
600-71390-18	2013-BSB-4 (2-4)	Total/NA	Solid	Moisture	
600-71390-19	2013-BSB-4 (4-5)	Total/NA	Solid	Moisture	
600-71390-20	2013-BSB-4 (8-10)	Total/NA	Solid	Moisture	
600-71390-21	2013-BSB-4 (11)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-BSB-9 (2-4)

Lab Sample ID: 600-71390-2

Date Collected: 04/10/13 09:52

Matrix: Solid

Date Received: 04/11/13 09:28

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:15	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-9 (4-5)

Lab Sample ID: 600-71390-3

Date Collected: 04/10/13 09:54

Matrix: Solid

Date Received: 04/11/13 09:28

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-9 (8-10)

Lab Sample ID: 600-71390-4

Date Collected: 04/10/13 09:58

Matrix: Solid

Date Received: 04/11/13 09:28

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:26	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-9 (11)

Lab Sample ID: 600-71390-5

Date Collected: 04/10/13 10:00

Matrix: Solid

Date Received: 04/11/13 09:28

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:28	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-8 (2-4)

Lab Sample ID: 600-71390-8

Date Collected: 04/10/13 10:39

Matrix: Solid

Date Received: 04/11/13 09:28

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:31	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-8 (4-5)

Lab Sample ID: 600-71390-9

Date Collected: 04/10/13 10:40
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:46	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-8 (8-10)

Lab Sample ID: 600-71390-10

Date Collected: 04/10/13 10:41
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:49	DCL	TAL HOU
Total/NA	Prep	3050B	DL		104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B	DL	50	104449	04/22/13 14:55	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-8 (11)

Lab Sample ID: 600-71390-11

Date Collected: 04/10/13 10:42
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:51	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-3 (2-4)

Lab Sample ID: 600-71390-13

Date Collected: 04/10/13 14:20
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-3 (4-5)

Lab Sample ID: 600-71390-14

Date Collected: 04/10/13 14:21
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-3 (8-10)

Lab Sample ID: 600-71390-15

Date Collected: 04/10/13 14:22
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 13:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-3 (11)

Lab Sample ID: 600-71390-16

Date Collected: 04/10/13 14:23
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 14:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-4 (2-4)

Lab Sample ID: 600-71390-18

Date Collected: 04/10/13 14:59
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 14:10	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-4 (4-5)

Lab Sample ID: 600-71390-19

Date Collected: 04/10/13 15:00
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 14:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-4 (8-10)

Lab Sample ID: 600-71390-20

Date Collected: 04/10/13 15:01
Matrix: Solid
Date Received: 04/11/13 09:28
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 14:15	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Client Sample ID: 2013-BSB-4 (11)
Date Collected: 04/10/13 15:02
Date Received: 04/11/13 09:28

Lab Sample ID: 600-71390-21
Matrix: Solid
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104386	04/19/13 15:28	NER	TAL HOU
Total/NA	Analysis	6010B		1	104449	04/22/13 14:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

Test America THE LEADER I

600-71390 Chain of Custody

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date	Chain of Custody Number: 225400
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 2
City: Round Rock / State: TX / Zip Code: 78664	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State): Eagle FRC, Frisco, TX	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Pb/Cd	Special Instructions/ Conditions of Receipt
2013-BSB-9 (0.9-2)	4-10-13	0950				X							X	
2013-BSB-9 (2-4)		0952				X								Hold
2013-BSB-9 (4-5)		0954				X								Hold
2013-BSB-9 (8-10)		0958				X								Hold
2013-BSB-9 (11)		1000				X								Hold
DUP-9														
2013-BSB-8 (0.9-2)		1036				X								
2013-BSB-8 (2-4)		1039				X								Hold
2013-BSB-8 (4-5)		1040				X								Hold
2013-BSB-8 (8-10)		1041				X								Hold
2013-BSB-8 (11)		1042				X								Hold
2013-BSB-34 (0.9-2)	↓	1419				X							↓	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/10/13	1530	1. Received By	4/10/13	1530
2. Relinquished By	4/10/13	1930	2. Received By		
3. Relinquished By			3. Received By	04/11/13	0928

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44300

CHAIN OF CUSTODY RECORD

Pg. 2/2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER: 1755, Exide FRC
SEND REPORT TO: Will V	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr. #1004 Round Rock, TX 78664	BILL TO:
	ADDRESS:
PHONE: (512) 671-3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS/METHOD REQUEST: Pb, Cd

LAB JOB NO.

SEAL INTACT_____
COOLER TEMP_____
IR GUN ID_____
INITIAL/DATE_____

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Pb, Cd	REMARKS/PRECAUTIONS.
	2013-BSB-3 (2-4)	4/10/13	1420	Soil	4oz	Ice	1	X	Hold
	2013-BSB-3 (4-5)	↓	1421	↓	↓	↓	↓	↓	Hold
	2013-BSB-3 (8-10)		1422						Hold
	2013-BSB-3 (11)		1423						Hold
	2013-BSB-4 (0.9-2)		1458						
	2013-BSB-4 (2-4)		1459						Hold
	2013-BSB-4 (4-5)		1500						Hold
	2013-BSB-4 (8-10)		1501						Hold
	2013-BSB-4 (11)	↓	1502	↓	↓	↓	↓	↓	Hold

SAMPLER: R. Russell, P. Ferrell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hour

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:	4/10/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1536	PRINTED NAME/COMPANY:	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:		SIGNATURE:	04/11/13
PRINTED NAME/COMPANY:	TIME 1530	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Rittenhart / TAH	TIME 0928

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~ Houston

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-2

Login Number: 71390

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71390-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
4/26/2013 5:38:30 PM
Cathy Upton
Data Delivery Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists 4
Case Narrative 7
Method Summary 8
Sample Summary 9
Client Sample Results 10
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 15
QC Association Summary 16
Lab Chronicle 17
Certification Summary 21
Chain of Custody 22
Receipt Checklists 24

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71390

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/25/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71390-3
Reviewer Name: BDG	Prep Batch Number(s): 104514 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			2
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71390-3
Reviewer Name: BDG	Prep Batch Number(s): 104514 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71390-3
Reviewer Name: BDG	Prep Batch Number(s): 104514 - pH

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Job ID: 600-71390-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71390-3

Comments
No additional comments.

Receipt
The samples were received on 4/11/2013 9:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

Except:

Method(s) 9045C: All associated samples were activated for pH analysis by the client via phone call on 4/19/13. This analysis was not originally requested on the chain-of-custody (COC).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Method	Method Description	Protocol	Laboratory
9045C	pH	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71390-1	2013-BSB-9 (0.9-2)	Solid	04/10/13 09:50	04/11/13 09:28
600-71390-2	2013-BSB-9 (2-4)	Solid	04/10/13 09:52	04/11/13 09:28
600-71390-3	2013-BSB-9 (4-5)	Solid	04/10/13 09:54	04/11/13 09:28
600-71390-4	2013-BSB-9 (8-10)	Solid	04/10/13 09:58	04/11/13 09:28
600-71390-5	2013-BSB-9 (11)	Solid	04/10/13 10:00	04/11/13 09:28
600-71390-6	DUP-9	Solid	04/10/13 00:00	04/11/13 09:28
600-71390-7	2013-BSB-8 (0.9-2)	Solid	04/10/13 10:38	04/11/13 09:28
600-71390-8	2013-BSB-8 (2-4)	Solid	04/10/13 10:39	04/11/13 09:28
600-71390-9	2013-BSB-8 (4-5)	Solid	04/10/13 10:40	04/11/13 09:28
600-71390-10	2013-BSB-8 (8-10)	Solid	04/10/13 10:41	04/11/13 09:28
600-71390-11	2013-BSB-8 (11)	Solid	04/10/13 10:42	04/11/13 09:28
600-71390-12	2013-BSB-3 (0.9-2)	Solid	04/10/13 14:19	04/11/13 09:28
600-71390-13	2013-BSB-3 (2-4)	Solid	04/10/13 14:20	04/11/13 09:28
600-71390-14	2013-BSB-3 (4-5)	Solid	04/10/13 14:21	04/11/13 09:28
600-71390-15	2013-BSB-3 (8-10)	Solid	04/10/13 14:22	04/11/13 09:28
600-71390-16	2013-BSB-3 (11)	Solid	04/10/13 14:23	04/11/13 09:28
600-71390-17	2013-BSB-4 (0.9-2)	Solid	04/10/13 14:58	04/11/13 09:28
600-71390-18	2013-BSB-4 (2-4)	Solid	04/10/13 14:59	04/11/13 09:28
600-71390-19	2013-BSB-4 (4-5)	Solid	04/10/13 15:00	04/11/13 09:28
600-71390-20	2013-BSB-4 (8-10)	Solid	04/10/13 15:01	04/11/13 09:28
600-71390-21	2013-BSB-4 (11)	Solid	04/10/13 15:02	04/11/13 09:28

Client Sample ID: 2013-BSB-9 (0.9-2) — **Lab Sample ID: 600-71390-1**
Date Collected: 04/10/13 09:50 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-9 (2-4) — **Lab Sample ID: 600-71390-2**
Date Collected: 04/10/13 09:52 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-9 (4-5) — **Lab Sample ID: 600-71390-3**
Date Collected: 04/10/13 09:54 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-9 (8-10) — **Lab Sample ID: 600-71390-4**
Date Collected: 04/10/13 09:58 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.68	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-9 (11) — **Lab Sample ID: 600-71390-5**
Date Collected: 04/10/13 10:00 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: DUP-9 — **Lab Sample ID: 600-71390-6**
Date Collected: 04/10/13 00:00 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.75	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-8 (0.9-2) — **Lab Sample ID: 600-71390-7**
Date Collected: 04/10/13 10:38 — Matrix: Solid
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.20	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-8 (2-4) — **Lab Sample ID: 600-71390-8**
Date Collected: 04/10/13 10:39 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.45	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-8 (4-5) — **Lab Sample ID: 600-71390-9**
Date Collected: 04/10/13 10:40 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-8 (8-10) — **Lab Sample ID: 600-71390-10**
Date Collected: 04/10/13 10:41 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-8 (11) — **Lab Sample ID: 600-71390-11**
Date Collected: 04/10/13 10:42 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-3 (0.9-2) — **Lab Sample ID: 600-71390-12**
Date Collected: 04/10/13 14:19 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-3 (2-4) — **Lab Sample ID: 600-71390-13**
Date Collected: 04/10/13 14:20 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.47	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-3 (4-5) — **Lab Sample ID: 600-71390-14**
Date Collected: 04/10/13 14:21 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-3 (8-10) — **Lab Sample ID: 600-71390-15**
Date Collected: 04/10/13 14:22 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-3 (11) — **Lab Sample ID: 600-71390-16**
Date Collected: 04/10/13 14:23 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-4 (0.9-2) — **Lab Sample ID: 600-71390-17**
Date Collected: 04/10/13 14:58 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.44	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-4 (2-4) — **Lab Sample ID: 600-71390-18**
Date Collected: 04/10/13 14:59 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-4 (4-5) — **Lab Sample ID: 600-71390-19**
Date Collected: 04/10/13 15:00 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-4 (8-10) — **Lab Sample ID: 600-71390-20**
Date Collected: 04/10/13 15:01 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64	H	0.0100	0.0100	SU			04/22/13 15:00	1

Client Sample ID: 2013-BSB-4 (11) — **Lab Sample ID: 600-71390-21**
Date Collected: 04/10/13 15:02 — **Matrix: Solid**
Date Received: 04/11/13 09:28

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17	H	0.0100	0.0100	SU			04/22/13 15:00	1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 9045C - pH

Lab Sample ID: LCS 600-104514/1
Matrix: Solid
Analysis Batch: 104514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99 - 101

Lab Sample ID: LCS 600-104514/26
Matrix: Solid
Analysis Batch: 104514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99 - 101

Lab Sample ID: 600-71390-1 DU
Matrix: Solid
Analysis Batch: 104514

Client Sample ID: 2013-BSB-9 (0.9-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.75	H	7.740		SU		0.1	1

Lab Sample ID: 600-71390-A-11 DU
Matrix: Solid
Analysis Batch: 104514

Client Sample ID: 600-71390-A-11 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH			7.870		SU			

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

General Chemistry

Analyte	MQL	MDL	Units	Method
pH	0.0100	0.0100	SU	9045C

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

General Chemistry

Analysis Batch: 104514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71390-1	2013-BSB-9 (0.9-2)	Total/NA	Solid	9045C	
600-71390-1 DU	2013-BSB-9 (0.9-2)	Total/NA	Solid	9045C	
600-71390-2	2013-BSB-9 (2-4)	Total/NA	Solid	9045C	
600-71390-3	2013-BSB-9 (4-5)	Total/NA	Solid	9045C	
600-71390-4	2013-BSB-9 (8-10)	Total/NA	Solid	9045C	
600-71390-5	2013-BSB-9 (11)	Total/NA	Solid	9045C	
600-71390-6	DUP-9	Total/NA	Solid	9045C	
600-71390-7	2013-BSB-8 (0.9-2)	Total/NA	Solid	9045C	
600-71390-8	2013-BSB-8 (2-4)	Total/NA	Solid	9045C	
600-71390-9	2013-BSB-8 (4-5)	Total/NA	Solid	9045C	
600-71390-10	2013-BSB-8 (8-10)	Total/NA	Solid	9045C	
600-71390-11	2013-BSB-8 (11)	Total/NA	Solid	9045C	
600-71390-12	2013-BSB-3 (0.9-2)	Total/NA	Solid	9045C	
600-71390-13	2013-BSB-3 (2-4)	Total/NA	Solid	9045C	
600-71390-14	2013-BSB-3 (4-5)	Total/NA	Solid	9045C	
600-71390-15	2013-BSB-3 (8-10)	Total/NA	Solid	9045C	
600-71390-16	2013-BSB-3 (11)	Total/NA	Solid	9045C	
600-71390-17	2013-BSB-4 (0.9-2)	Total/NA	Solid	9045C	
600-71390-18	2013-BSB-4 (2-4)	Total/NA	Solid	9045C	
600-71390-19	2013-BSB-4 (4-5)	Total/NA	Solid	9045C	
600-71390-20	2013-BSB-4 (8-10)	Total/NA	Solid	9045C	
600-71390-21	2013-BSB-4 (11)	Total/NA	Solid	9045C	
600-71390-A-11 DU	600-71390-A-11 DU	Total/NA	Solid	9045C	
LCS 600-104514/1	Lab Control Sample	Total/NA	Solid	9045C	
LCS 600-104514/26	Lab Control Sample	Total/NA	Solid	9045C	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Client Sample ID: 2013-BSB-9 (0.9-2)

Lab Sample ID: 600-71390-1

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-9 (2-4)

Lab Sample ID: 600-71390-2

Date Collected: 04/10/13 09:52

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-9 (4-5)

Lab Sample ID: 600-71390-3

Date Collected: 04/10/13 09:54

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-9 (8-10)

Lab Sample ID: 600-71390-4

Date Collected: 04/10/13 09:58

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-9 (11)

Lab Sample ID: 600-71390-5

Date Collected: 04/10/13 10:00

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: DUP-9

Lab Sample ID: 600-71390-6

Date Collected: 04/10/13 00:00

Matrix: Solid

Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-8 (0.9-2) — **Lab Sample ID: 600-71390-7**
Date Collected: 04/10/13 10:38 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-8 (2-4) — **Lab Sample ID: 600-71390-8**
Date Collected: 04/10/13 10:39 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-8 (4-5) — **Lab Sample ID: 600-71390-9**
Date Collected: 04/10/13 10:40 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-8 (8-10) — **Lab Sample ID: 600-71390-10**
Date Collected: 04/10/13 10:41 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-8 (11) — **Lab Sample ID: 600-71390-11**
Date Collected: 04/10/13 10:42 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-3 (0.9-2) — **Lab Sample ID: 600-71390-12**
Date Collected: 04/10/13 14:19 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Client Sample ID: 2013-BSB-3 (2-4) — **Lab Sample ID: 600-71390-13**
Date Collected: 04/10/13 14:20 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-3 (4-5) — **Lab Sample ID: 600-71390-14**
Date Collected: 04/10/13 14:21 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-3 (8-10) — **Lab Sample ID: 600-71390-15**
Date Collected: 04/10/13 14:22 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-3 (11) — **Lab Sample ID: 600-71390-16**
Date Collected: 04/10/13 14:23 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-4 (0.9-2) — **Lab Sample ID: 600-71390-17**
Date Collected: 04/10/13 14:58 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-4 (2-4) — **Lab Sample ID: 600-71390-18**
Date Collected: 04/10/13 14:59 — **Matrix: Solid**
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Client Sample ID: 2013-BSB-4 (4-5)

Lab Sample ID: 600-71390-19

Date Collected: 04/10/13 15:00
Matrix: Solid
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-4 (8-10)

Lab Sample ID: 600-71390-20

Date Collected: 04/10/13 15:01
Matrix: Solid
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Client Sample ID: 2013-BSB-4 (11)

Lab Sample ID: 600-71390-21

Date Collected: 04/10/13 15:02
Matrix: Solid
Date Received: 04/11/13 09:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104514	04/22/13 15:00	KRD	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71390-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

Test America THE LEADER I

600-71390 Chain of Custody

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date	Chain of Custody Number: 225400
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 2
City: Round Rock / State: TX / Zip Code: 78664	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State): Eagle FRC, Frisco, TX	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-9 (0.9-2)	4-10-13	0950				X							X	
2013-BSB-9 (2-4)		0952				X								Hold
2013-BSB-9 (4-5)		0954				X								Hold
2013-BSB-9 (8-10)		0958				X								Hold
2013-BSB-9 (11)		1000				X								Hold
DUP-9														
2013-BSB-8 (0.9-2)		1036				X								
2013-BSB-8 (2-4)		1039				X								Hold
2013-BSB-8 (4-5)		1040				X								Hold
2013-BSB-8 (8-10)		1041				X								Hold
2013-BSB-8 (11)		1042				X								Hold
2013-BSB-34 (0.9-2)	↓	1419				X							↓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/10/13	1530	1. Received By	4/10/13	1530
2. Relinquished By	4/10/13	1930	2. Received By		
3. Relinquished By			3. Received By	04/11/13	0928

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

4/26/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44300

CHAIN OF CUSTODY RECORD

Pg. 2/2

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER: 1755, Exide FRC
SEND REPORT TO: Will V	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr. #1004 Round Rock, TX 78664	BILL TO:
	ADDRESS:
PHONE: (512) 671-3434	PHONE:
FAX:	FAX: PO NO:

ANALYSIS/METHOD REQUEST: Pb, Cd

LAB JOB NO.

SEAL INTACT_____
COOLER TEMP_____
IR GUN ID_____
INITIAL/DATE_____

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Pb, Cd	REMARKS/PRECAUTIONS.
	2013-BSB-3 (2-4)	4/10/13	1420	Soil	4oz	Ice	1	X	Hold
	2013-BSB-3 (4-5)	↓	1421	↓	↓	↓	↓	↓	Hold
	2013-BSB-3 (8-10)		1422						Hold
	2013-BSB-3 (11)		1423						Hold
	2013-BSB-4 (0.9-2)		1458						
	2013-BSB-4 (2-4)		1459						Hold
	2013-BSB-4 (4-5)		1500						Hold
	2013-BSB-4 (8-10)		1501						Hold
	2013-BSB-4 (11)	↓	1502	↓	↓	↓	↓	↓	Hold

SAMPLER: R. Russell, P. Ferrell
SHIPMENT METHOD:
AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hour

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:	4/10/13	SIGNATURE:	
PRINTED NAME/COMPANY: Tim Jennings	TIME 1536	PRINTED NAME/COMPANY:	TIME 1730	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/10/13	SIGNATURE:		SIGNATURE:	04/11/13
PRINTED NAME/COMPANY:	TIME 1530	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Rittenhart / TAH	TIME 0928

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
Corpus Christi, TX 78408
Phone: 361.289.2673/Fax: ~~361.289.2471~~ Houston

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71390-3

Login Number: 71390

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71454-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 6:07:57 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 17
QC Association Summary 18
Lab Chronicle 20
Certification Summary 22
Chain of Custody 23
Receipt Checklists 29

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71454-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		04/18/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454
Reviewer Name: TWR	Prep Batch Number(s): 600-103879, 104053- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			1
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454
Reviewer Name: TWR	Prep Batch Number(s): 600-103879, 104053- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454
Reviewer Name: TWR	Prep Batch Number(s): 600-103879, 104053- ICP

ER #[1]	DESCRIPTION
1	The lead RPD between samples 71454-28 and 71454-28 MD was above acceptance limits due to the non-homogenous nature of the samples.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-71454-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71454-1

Comments
The report was revised on 06/18/13 to update the sample date for sample 28 per client's email.

Receipt
The samples were received on 4/12/2013 8:51 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.0º C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 2013-BSB-7 (0.9-2), 2013-BSB-7 (2-4), 2013-BSB-7 (4-5), 2013-BSB-7 (8-10), and 2013-BSB-7 (11').

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71454-1	2013-BSB-6 (0.9-2)	Solid	04/11/13 08:50	04/12/13 08:51
600-71454-6	2013-BSB-10 (0.9-2)	Solid	04/11/13 09:35	04/12/13 08:51
600-71454-11	2013-BSB-2 (0.9-2)	Solid	04/11/13 10:25	04/12/13 08:51
600-71454-16	2013-BSB-5 (0.9-2)	Solid	04/11/13 11:04	04/12/13 08:51
600-71454-21	2013-BSB-1 (0.9-2)	Solid	04/11/13 12:00	04/12/13 08:51
600-71454-26	DUP-10	Solid	04/11/13 00:00	04/12/13 08:51
600-71454-28	2013-BSB-7 (0.9-2)	Solid	04/10/13 16:00	04/12/13 08:51

Client Sample ID: 2013-BSB-6 (0.9-2)

Lab Sample ID: 600-71454-1

Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0304	U	0.296	0.0304	mg/Kg	☼	04/12/13 16:01	04/15/13 13:42	1
Lead	**24.4**		0.592	0.124	mg/Kg	☼	04/12/13 16:01	04/15/13 13:42	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**84**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-10 (0.9-2)

Lab Sample ID: 600-71454-6

Date Collected: 04/11/13 09:35
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 89.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0286	U	0.279	0.0286	mg/Kg	☼	04/12/13 16:01	04/15/13 13:52	1
Lead	**15.2**		0.559	0.117	mg/Kg	☼	04/12/13 16:01	04/15/13 13:52	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**90**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-2 (0.9-2)

Lab Sample ID: 600-71454-11

Date Collected: 04/11/13 10:25
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 89.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0276	U	0.269	0.0276	mg/Kg	☼	04/12/13 16:01	04/15/13 13:54	1
Lead	**70.4**		0.538	0.113	mg/Kg	☼	04/12/13 16:01	04/15/13 13:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**89**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-5 (0.9-2)

Lab Sample ID: 600-71454-16

Date Collected: 04/11/13 11:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 88.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.137**	**J**	0.263	0.0270	mg/Kg	☼	04/12/13 16:01	04/15/13 13:56	1
Lead	**5.28**		0.526	0.110	mg/Kg	☼	04/12/13 16:01	04/15/13 13:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**89**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-1 (0.9-2)

Lab Sample ID: 600-71454-21
Date Collected: 04/11/13 12:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 91.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0266	U	0.260	0.0266	mg/Kg	☼	04/12/13 16:01	04/15/13 13:59	1
Lead	**9.56**		0.519	0.109	mg/Kg	☼	04/12/13 16:01	04/15/13 13:59	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**92**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: DUP-10

Lab Sample ID: 600-71454-26
Date Collected: 04/11/13 00:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 87.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.341**		0.284	0.0291	mg/Kg	☼	04/12/13 16:01	04/15/13 14:01	1
Lead	**6.48**		0.568	0.119	mg/Kg	☼	04/12/13 16:01	04/15/13 14:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**87**		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-7 (0.9-2)

Lab Sample ID: 600-71454-28
Date Collected: 04/10/13 16:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.370**		0.268	0.0275	mg/Kg	☼	04/16/13 10:35	04/16/13 15:46	1
Lead	**26.8**		0.536	0.112	mg/Kg	☼	04/16/13 10:35	04/16/13 18:45	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14**		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	**86**		1.0	1.0	%			04/14/13 10:11	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-103879/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103933 — **Prep Batch: 103879**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/12/13 16:01	04/15/13 13:31	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/12/13 16:01	04/15/13 13:31	1

Lab Sample ID: LCSSRM 600-103879/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103933 — **Prep Batch: 103879**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	99.06		mg/Kg		96.2	83.6 - 115.5
Lead	76.9	84.45		mg/Kg		109.8	81.3 - 118.7

Lab Sample ID: 600-71454-1 MS — **Client Sample ID: 2013-BSB-6 (0.9-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103933 — **Prep Batch: 103879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0304	U	29.0	27.98		mg/Kg	☼	96	75 - 125
Lead	24.4		58.1	85.91		mg/Kg	☼	106	75 - 125

Lab Sample ID: 600-71454-1MSD — **Client Sample ID: 2013-BSB-6 (0.9-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103933 — **Prep Batch: 103879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.0304	U	29.0	27.97		mg/Kg	☼	96	75 - 125	0	20
Lead	24.4		58.1	76.09		mg/Kg	☼	89	75 - 125	12	20

Lab Sample ID: 600-71454-1 DU — **Client Sample ID: 2013-BSB-6 (0.9-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 103933 — **Prep Batch: 103879**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.0304	U	0.0295	U	mg/Kg	☼	NC	20
Lead	24.4		26.25		mg/Kg	☼	7	20

Lab Sample ID: MB 600-104053/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 104088 — **Prep Batch: 104053**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/16/13 10:35	04/16/13 15:42	1

Lab Sample ID: MB 600-104053/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 104108 — **Prep Batch: 104053**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/16/13 10:35	04/16/13 18:41	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 600-104053/2-A
Matrix: Solid
Analysis Batch: 104088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	94.04		mg/Kg		91.3	83.6 - 115.5

Lab Sample ID: LCSSRM 600-104053/2-A
Matrix: Solid
Analysis Batch: 104108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	77.10		mg/Kg		100.3	81.3 - 118.7

Lab Sample ID: 600-71454-28 MS
Matrix: Solid
Analysis Batch: 104088

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.370		29.0	27.11		mg/Kg	☼	92	75 - 125

Lab Sample ID: 600-71454-28 MS
Matrix: Solid
Analysis Batch: 104108

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	26.8		57.9	87.71		mg/Kg	☼	105	75 - 125

Lab Sample ID: 600-71454-28 MSD
Matrix: Solid
Analysis Batch: 104088

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.370		28.7	26.20		mg/Kg	☼	90	75 - 125	3	20

Lab Sample ID: 600-71454-28 MSD
Matrix: Solid
Analysis Batch: 104108

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	26.8		57.4	79.21		mg/Kg	☼	91	75 - 125	10	20

Lab Sample ID: 600-71454-28 DU
Matrix: Solid
Analysis Batch: 104088

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.370		0.1606	J	mg/Kg	☼	79	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-71454-28 DU
Matrix: Solid
Analysis Batch: 104108

Client Sample ID: 2013-BSB-7 (0.9-2)
Prep Type: Total/NA
Prep Batch: 104053

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	26.8			81.45	F	mg/Kg	☼			101	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 103879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-1	2013-BSB-6 (0.9-2)	Total/NA	Solid	3050B	
600-71454-1 DU	2013-BSB-6 (0.9-2)	Total/NA	Solid	3050B	
600-71454-1 MS	2013-BSB-6 (0.9-2)	Total/NA	Solid	3050B	
600-71454-1MSD	2013-BSB-6 (0.9-2)	Total/NA	Solid	3050B	
600-71454-6	2013-BSB-10 (0.9-2)	Total/NA	Solid	3050B	
600-71454-11	2013-BSB-2 (0.9-2)	Total/NA	Solid	3050B	
600-71454-16	2013-BSB-5 (0.9-2)	Total/NA	Solid	3050B	
600-71454-21	2013-BSB-1 (0.9-2)	Total/NA	Solid	3050B	
600-71454-26	DUP-10	Total/NA	Solid	3050B	
LCSSRM 600-103879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-103879/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 103933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-1	2013-BSB-6 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-1 DU	2013-BSB-6 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-1 MS	2013-BSB-6 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-1MSD	2013-BSB-6 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-6	2013-BSB-10 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-11	2013-BSB-2 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-16	2013-BSB-5 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-21	2013-BSB-1 (0.9-2)	Total/NA	Solid	6010B	103879
600-71454-26	DUP-10	Total/NA	Solid	6010B	103879
LCSSRM 600-103879/2-A	Lab Control Sample	Total/NA	Solid	6010B	103879
MB 600-103879/1-A	Method Blank	Total/NA	Solid	6010B	103879

Prep Batch: 104053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-28	2013-BSB-7 (0.9-2)	Total/NA	Solid	3050B	
600-71454-28 DU	2013-BSB-7 (0.9-2)	Total/NA	Solid	3050B	
600-71454-28 MS	2013-BSB-7 (0.9-2)	Total/NA	Solid	3050B	
600-71454-28 MSD	2013-BSB-7 (0.9-2)	Total/NA	Solid	3050B	
LCSSRM 600-104053/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104053/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-28	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 DU	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 MS	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 MSD	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
LCSSRM 600-104053/2-A	Lab Control Sample	Total/NA	Solid	6010B	104053
MB 600-104053/1-A	Method Blank	Total/NA	Solid	6010B	104053

Analysis Batch: 104108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-28	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 DU	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 MS	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
600-71454-28 MSD	2013-BSB-7 (0.9-2)	Total/NA	Solid	6010B	104053
LCSSRM 600-104053/2-A	Lab Control Sample	Total/NA	Solid	6010B	104053

Metals (Continued)

Analysis Batch: 104108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-104053/1-A	Method Blank	Total/NA	Solid	6010B	104053

General Chemistry

Analysis Batch: 103909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-1	2013-BSB-6 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-1 MS	2013-BSB-6 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-1MSD	2013-BSB-6 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-6	2013-BSB-10 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-11	2013-BSB-2 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-16	2013-BSB-5 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-21	2013-BSB-1 (0.9-2)	Total/NA	Solid	Moisture	
600-71454-26	DUP-10	Total/NA	Solid	Moisture	
600-71454-28	2013-BSB-7 (0.9-2)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-BSB-6 (0.9-2)

Lab Sample ID: 600-71454-1

Date Collected: 04/11/13 08:50
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 13:42	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (0.9-2)

Lab Sample ID: 600-71454-6

Date Collected: 04/11/13 09:35
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 13:52	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-2 (0.9-2)

Lab Sample ID: 600-71454-11

Date Collected: 04/11/13 10:25
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 13:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (0.9-2)

Lab Sample ID: 600-71454-16

Date Collected: 04/11/13 11:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 13:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (0.9-2)

Lab Sample ID: 600-71454-21

Date Collected: 04/11/13 12:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 13:59	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-1

Client Sample ID: DUP-10

Lab Sample ID: 600-71454-26

Date Collected: 04/11/13 00:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			103879	04/12/13 16:01	NER	TAL HOU
Total/NA	Analysis	6010B		1	103933	04/15/13 14:01	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (0.9-2)

Lab Sample ID: 600-71454-28

Date Collected: 04/10/13 16:00
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104053	04/16/13 10:35	NER	TAL HOU
Total/NA	Analysis	6010B		1	104088	04/16/13 15:46	DCL	TAL HOU
Total/NA	Prep	3050B			104053	04/16/13 10:35	NER	TAL HOU
Total/NA	Analysis	6010B		1	104108	04/16/13 18:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44301

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER:
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr.	BILL TO:
Suite 4004	ADDRESS:
Round Rock, TX 78664	
PHONE: 512/671-3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Pb, Cd	MS/MSD						REMARKS/PRECAUTIONS.
	2013-BSB-6(0.9-2)	4/11/13	0850	Soil	4oz	Ice			X						
	2013-BSB-6(2-4)		0851												Hold
	2013-BSB-6(4-5)		0852												Hold
	2013-BSB-6(8-10)		0853												Hold
	2013-BSB-6(11.1')		0854												Hold
	2013-BSB-10(0.9-2)		0935												
	2013-BSB-10(2-4)		0936												Hold
	2013-BSB-10(4-5)		0937												Hold
	2013-BSB-10(8-10)		0938												Hold
	2013-BSB-10(11.4)		0939												Hold
	2013-BSB-2(0.9-2)		1025												

ANALYSIS/METHOD REQUEST

LAB JOB NO.

600-71454 Chain of Custody

IR GUN ID_____
INITIAL/DATE_____

SAMPLER: Roberta Russell, Patrick Ferrell

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hours

1. RELINQUISHED BY: Kevin Dwoesky	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:	4/11/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1505	PRINTED NAME/COMPANY: TA	TIME 1710	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:		SIGNATURE:	04/12/13
PRINTED NAME/COMPANY: TA	TIME 1585	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulumbarit / TAH	TIME 0851

TAL-8222-560 (1209)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Houston
Phone: 361.289.2673/Fax: 361.289.2471

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	4/11/13	225355
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2291 Double Creek Dr., Suite 4004	512/671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664		
Project Name and Location (State)	**Carrier/Waybill Number**	
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	1C6	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-2(2-4)	4/11/13	1026				X							X	X	Hold
2013-BSB-2(4-5)		1027													Hold
2013-BSB-2(9-10)		1028													Hold
2013-BSB-2(11.2)		1029													Hold
2013-BSB-5(0.9-2)		1104													
2013-BSB-5(2-4)		1105													Hold
2013-BSB-5(4-5)		1106													Hold
2013-BSB-5(9-10)		1107													Hold
2013-BSB-5(11.2)		11.08													Hold
2013-BSB-1(0.9-2)		1200													
2013-BSB-1(2-4)		1201													Hold
2013-BSB-1(4-5)	↓	1202				↓							↓	↓	Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/11/13	1505	1. Received By	4/11/13	1505
2. Relinquished By	4/11/13	1700	2. Received By		
3. Relinquished By			3. Received By	04/12/13	0857

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	4/11/13	225357
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr., Suite 4004	512/671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICG	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-1(8-10)	4/11/13	1204				X							X	X	Hold
2013-BSB-1(11.6)	↓	1205				↓							↓	↓	Hold
DUP-10	↓					↓							↓	↓	
2013-BSB-1(6.3-7.7)	↓	1203				↓							↓	↓	Hold

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	4/11/13	1505	[signature] McCone	4/11/13	1585
2.	[signature] McCone	4/11/13	1700	2. Received By	Date	Time
3.	3. Relinquished By	Date	Time	3. Received By [signature]	04/12/13	0857

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

Upton, Cathy

From: Taryn Scholz [taryn@qaallc.com]
Sent: Thursday, June 13, 2013 11:08 AM
To: Kudchadkar, Sachin
Cc: Upton, Cathy; Roberta Russell; Will Vienne
Subject: Re: Exide
Follow Up Flag: Follow up
Flag Status: Red

One other note - I haven't reviewed the May data yet and will likely need some PDS/SD data for that. Thanks so much for providing that additional info each time I've requested it.

On 6/13/2013 11:01 AM, Taryn Scholz wrote:

> Hi Sachin,
>
> We're getting close! I've listed below what I show as outstanding for this data set - in order of priority. Please let me know if I've made an error or you have any questions.
>
> Thanks so much, Taryn
>
> 1. For 600-48997-2 - This report is the one with the Jan 2012 samples split out from the original report. It did not pick up the QC for the dissolved samples (prep batch 70924 with alyt batch 71248). Can you please add in?
>
> 2. For 600-70120-1, please add As to sample 28. (A prelim report was submitted for this - and a final report for 600-70120-3 with As added to sample 18 instead of sample 28.)
>
> 3. For J71454, please change sample dates for samples 28 to 32 from 4/11/13 to 4/10/13 (and add the sample times) per the email below. This affects job IDs 600-71454-1, 600-71454-2 and 600-71454-3.
>
> 4. For J72120, please change sample dates for samples 5 to 7 from 4/22/13 to 4/23/13 per COC. There's only one job ID for this (600-72120-1)
>
> 5. For 600-70064-1, TX1006 results are reported for sample 27 but TX1005 was not requested for this sample and thus no surrogate recoveries are reported. Is it possible to get the recoveries for the extraction process for this sample? I've got nothing to go on except one LCS recovery for >C6-C35. (Note: TX1005 is reported for sample 29, which is from the same location.)
>
> 6. Please add MTBE results to the following samples, followed by job number:
>
> 2013-RMSA-6 (2.6-3.3'), 69726-1
> 2013-STB-2 (4-5') , 69726-1
> 2013-STB-6 (0.5-1.1') , 70064-1
> 2013-STB-11 (0.5-1.3') , 70064-1
> 2013-MB-1 (0-2'), 70064-1
> 2013-MB-1 (4-5') , 70064-1
> 2013-MB-2 (0-2') , 70064-1
> 2013-RMSB-4 (0-2'), 72755-1
> 2013-RMSB-4 (2-5) , 72755-1
> 2013-RMSB-4 (5-6) , 72755-1
> 2013-RMSB-5 (2-5) , 72755-1
>
> 7. For 600-74152-1, final report not yet submitted for these samples received on 6/5/13. I don't know of any other work orders needed - though I might be unaware of some hold samples that have been released.

Subject: RE: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec
Date: Fri, 12 Apr 2013 23:55:19 +0000
From: Roberta Russell <roberta.russell@pbwllc.com>
To: sachin.kudchadkar@testamericainc.com <sachin.kudchadkar@testamericainc.com>, Cheryl Cunningham <cheryl.cunningham@pbwllc.com>, Eric Pastor <eric.pastor@pbwllc.com>, Ms. Taryn Scholz <taryn@qaallc.com>, Will Vienne <will.vienne@pbwllc.com>

Sachin:

Below is the information regarding those samples :

2013-BSB-7 (0.9-2) Collected 4/10/13, 16:00 - Pb and Cd
2013-BSB-7 (2-4) Collected 4/10/13, 16:01 (Hold) - Pb and Cd
2013-BSB-7 (4-5) Collected 4/10/13, 16:02 (Hold) - Pb and Cd
2013-BSB-7 (8-10) Collected 4/10/13, 16:03 (Hold) - Pb and Cd
2013-BSB-7 (11) Collected 4/10/13, 16:04 (Hold) - Pb and Cd

Thanks,

Roberta

From: Kudchadkar, Sachin [sachin.kudchadkar@testamericainc.com]
Sent: Friday, April 12, 2013 5:07 PM
To: Cheryl Cunningham; Eric Pastor; Roberta Russell; Ms. Taryn Scholz; Will Vienne
Subject: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec

Samples 600-71454-28, -29, -30, -31, -32 were received but not listed on the chain of custody. Please advise.

Thanks

SACHIN G KUDCHADKAR

TestAmerica Houston
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 713.690.4444
www.testamericainc.com

Reference: [145656]
Attachments: 1

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-1

Login Number: 71454

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71454-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 6:22:16 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 18
QC Sample Results 19
Default Detection Limits 22
QC Association Summary 23
Lab Chronicle 26
Certification Summary 32
Chain of Custody 33
Receipt Checklists 39

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71454

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/26/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104352, 104367- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				2
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			5
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				6
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104352, 104367- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			7
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				8
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-71454-2
Reviewer Name: TWR	Prep Batch Number(s): 600-104352, 104367- ICP

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	Lead was detected above the MDL, but below the MQL in the prep blank for batch 104367. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
3	The lead recoveries in samples 71454-3 MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by an acceptable LCS recovery.
4	The lead RPD between samples 71454-3 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
5	The lead RPD between samples 71454-7 and 71454-7 MD was above acceptance limits due to the non-homogenous nature of the samples.
6	The lead SDLs were elevated in samples 71454-24 and 71454-27 due to the dilution necessary to bring this analyte to within linear dynamic range.
7	Lead was detected above the MDL in the CCB analyzed on 04/19/13 at 19:31. Since the concentration was below the MQL, no corrective action was required.
8	The laboratory selected samples from other groups to perform as the PDS/SDs.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-71454-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71454-2

Comments
The report was revised on 06/18/13 to update sample IDs for samples 29-32 per client's email.

Receipt
The samples were received on 4/12/2013 8:51 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.0º C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 2013-BSB-7 (0.9-2), 2013-BSB-7 (2-4), 2013-BSB-7 (4-5), 2013-BSB-7 (8-10), and 2013-BSB-7 (11').

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71454-2	2013-BSB-6 (2-4)	Solid	04/11/13 08:51	04/12/13 08:51
600-71454-3	2013-BSB-6 (4-5)	Solid	04/11/13 08:52	04/12/13 08:51
600-71454-4	2013-BSB-6 (8-10)	Solid	04/11/13 08:53	04/12/13 08:51
600-71454-5	2013-BSB-6 (11.1')	Solid	04/11/13 08:54	04/12/13 08:51
600-71454-7	2013-BSB-10 (2-4)	Solid	04/11/13 09:36	04/12/13 08:51
600-71454-8	2013-BSB-10 (4-5)	Solid	04/11/13 08:37	04/12/13 08:51
600-71454-9	2013-BSB-10 (8-10)	Solid	04/11/13 08:38	04/12/13 08:51
600-71454-10	2013-BSB-10 (11.4)	Solid	04/11/13 09:39	04/12/13 08:51
600-71454-12	2013-BSB-2 (2-4)	Solid	04/11/13 10:26	04/12/13 08:51
600-71454-13	2013-BSB-2 (4-5)	Solid	04/11/13 10:27	04/12/13 08:51
600-71454-14	2013-BSB-2 (8-10)	Solid	04/11/13 10:28	04/12/13 08:51
600-71454-15	2013-BSB-2 (11.2)	Solid	04/11/13 10:29	04/12/13 08:51
600-71454-17	2013-BSB-5 (2-4)	Solid	04/11/13 11:05	04/12/13 08:51
600-71454-18	2013-BSB-5 (4-5)	Solid	04/11/13 11:06	04/12/13 08:51
600-71454-19	2013-BSB-5 (8-10)	Solid	04/11/13 11:07	04/12/13 08:51
600-71454-20	2013-BSB-5 (11.2)	Solid	04/11/13 11:08	04/12/13 08:51
600-71454-22	2013-BSB-1 (2-4)	Solid	04/11/13 12:01	04/12/13 08:51
600-71454-23	2013-BSB-1 (4-5)	Solid	04/11/13 12:02	04/12/13 08:51
600-71454-24	2013-BSB-1 (8-10)	Solid	04/11/13 12:04	04/12/13 08:51
600-71454-25	2013-BSB-1 (11.6)	Solid	04/11/13 12:05	04/12/13 08:51
600-71454-27	2013-BSB-1 (6.3-7.7)	Solid	04/11/13 12:03	04/12/13 08:51
600-71454-29	2013-BSB-7 (2-4)	Solid	04/10/13 16:01	04/12/13 08:51
600-71454-30	2013-BSB-7 (4-5)	Solid	04/10/13 16:02	04/12/13 08:51
600-71454-31	2013-BSB-7 (8-10)	Solid	04/10/13 16:03	04/12/13 08:51
600-71454-32	2013-BSB-7 (11)	Solid	04/10/13 16:04	04/12/13 08:51

Client Sample ID: 2013-BSB-6 (2-4)

Lab Sample ID: 600-71454-2

Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 85.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0393	J	0.281	0.0288	mg/Kg	☼	04/19/13 12:06	04/19/13 18:06	1
Lead	23.7		0.561	0.118	mg/Kg	☼	04/19/13 12:06	04/19/13 18:06	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	86		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-6 (4-5)

Lab Sample ID: 600-71454-3

Date Collected: 04/11/13 08:52
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.695		0.276	0.0283	mg/Kg	☼	04/19/13 12:06	04/19/13 18:09	1
Lead	586		0.552	0.116	mg/Kg	☼	04/19/13 12:06	04/19/13 18:09	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	85		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-6 (8-10)

Lab Sample ID: 600-71454-4

Date Collected: 04/11/13 08:53
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 75.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.910		0.323	0.0331	mg/Kg	☼	04/19/13 12:06	04/19/13 18:18	1
Lead	3150		0.646	0.135	mg/Kg	☼	04/19/13 12:06	04/19/13 18:18	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	75		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-6 (11.1')

Lab Sample ID: 600-71454-5

Date Collected: 04/11/13 08:54
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.439		0.323	0.0331	mg/Kg	☼	04/19/13 12:06	04/19/13 18:20	1
Lead	20.3		0.646	0.135	mg/Kg	☼	04/19/13 12:06	04/19/13 18:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	74		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-10 (2-4)

Lab Sample ID: 600-71454-7

Date Collected: 04/11/13 09:36
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0308	U	0.300	0.0308	mg/Kg	☼	04/19/13 12:06	04/19/13 18:32	1
Lead	8.88		0.600	0.126	mg/Kg	☼	04/19/13 12:06	04/19/13 18:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	83		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-10 (4-5)

Lab Sample ID: 600-71454-8

Date Collected: 04/11/13 08:37
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0713	J	0.274	0.0281	mg/Kg	☼	04/19/13 12:06	04/19/13 18:41	1
Lead	25.2		0.548	0.115	mg/Kg	☼	04/19/13 12:06	04/19/13 18:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-10 (8-10)

Lab Sample ID: 600-71454-9

Date Collected: 04/11/13 08:38
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 78.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.68		0.291	0.0299	mg/Kg	☼	04/19/13 12:06	04/19/13 18:44	1
Lead	2590		0.583	0.122	mg/Kg	☼	04/19/13 12:06	04/19/13 18:44	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	79		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-10 (11.4)

Lab Sample ID: 600-71454-10

Date Collected: 04/11/13 09:39
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 75.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.488		0.330	0.0338	mg/Kg	☼	04/19/13 12:06	04/19/13 18:46	1
Lead	30.9		0.659	0.138	mg/Kg	☼	04/19/13 12:06	04/19/13 18:46	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	75		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-2 (2-4)

Lab Sample ID: 600-71454-12

Date Collected: 04/11/13 10:26
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 85.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0399	J	0.285	0.0293	mg/Kg	☼	04/19/13 12:06	04/19/13 18:48	1
Lead	9.36		0.571	0.120	mg/Kg	☼	04/19/13 12:06	04/19/13 18:48	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	85		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-2 (4-5)

Lab Sample ID: 600-71454-13

Date Collected: 04/11/13 10:27
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.334		0.293	0.0300	mg/Kg	☼	04/19/13 12:06	04/19/13 18:51	1
Lead	1080		0.585	0.123	mg/Kg	☼	04/19/13 12:06	04/19/13 18:51	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	85		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-2 (8-10)

Lab Sample ID: 600-71454-14

Date Collected: 04/11/13 10:28
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 75.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.484		0.318	0.0327	mg/Kg	☼	04/19/13 12:06	04/19/13 18:53	1
Lead	41.6		0.637	0.134	mg/Kg	☼	04/19/13 12:06	04/19/13 18:53	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	75		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-2 (11.2)

Lab Sample ID: 600-71454-15

Date Collected: 04/11/13 10:29
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 73.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.638		0.322	0.0331	mg/Kg	☼	04/19/13 12:06	04/19/13 19:03	1
Lead	684		0.644	0.135	mg/Kg	☼	04/19/13 12:06	04/19/13 19:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	73		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-5 (2-4)

Lab Sample ID: 600-71454-17

Date Collected: 04/11/13 11:05
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0557	J	0.278	0.0286	mg/Kg	☼	04/19/13 12:06	04/19/13 19:05	1
Lead	21.6		0.557	0.117	mg/Kg	☼	04/19/13 12:06	04/19/13 19:05	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-5 (4-5)

Lab Sample ID: 600-71454-18

Date Collected: 04/11/13 11:06
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.299		0.288	0.0295	mg/Kg	☼	04/19/13 12:06	04/19/13 19:07	1
Lead	122		0.575	0.121	mg/Kg	☼	04/19/13 12:06	04/19/13 19:07	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-5 (8-10)

Lab Sample ID: 600-71454-19

Date Collected: 04/11/13 11:07
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.479		0.303	0.0311	mg/Kg	☼	04/19/13 12:06	04/19/13 19:10	1
Lead	1580		0.606	0.127	mg/Kg	☼	04/19/13 12:06	04/19/13 19:10	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	76		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-5 (11.2)

Lab Sample ID: 600-71454-20

Date Collected: 04/11/13 11:08
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 74.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.458		0.332	0.0340	mg/Kg	☼	04/19/13 12:06	04/19/13 19:12	1
Lead	53.9		0.663	0.139	mg/Kg	☼	04/19/13 12:06	04/19/13 19:12	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	75		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (2-4)

Lab Sample ID: 600-71454-22

Date Collected: 04/11/13 12:01
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0409	J	0.292	0.0300	mg/Kg	☼	04/19/13 12:06	04/19/13 19:15	1
Lead	56.2		0.584	0.123	mg/Kg	☼	04/19/13 12:06	04/19/13 19:15	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	85		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (4-5)

Lab Sample ID: 600-71454-23

Date Collected: 04/11/13 12:02
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 85.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0977	J	0.287	0.0295	mg/Kg	☼	04/19/13 12:06	04/19/13 19:17	1
Lead	31.6		0.575	0.120	mg/Kg	☼	04/19/13 12:06	04/19/13 19:17	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	85		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (8-10)

Lab Sample ID: 600-71454-24

Date Collected: 04/11/13 12:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.99		0.301	0.0309	mg/Kg	☼	04/19/13 12:06	04/19/13 19:19	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	42700		9.17	1.92	mg/Kg		04/19/13 12:06	04/22/13 10:13	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	76		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (11.6)

Lab Sample ID: 600-71454-25

Date Collected: 04/11/13 12:05
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.487		0.316	0.0324	mg/Kg	☼	04/19/13 12:06	04/19/13 19:22	1
Lead	124		0.633	0.133	mg/Kg	☼	04/19/13 12:06	04/19/13 19:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (11.6)

Lab Sample ID: 600-71454-25

Date Collected: 04/11/13 12:05
Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-1 (6.3-7.7)

Lab Sample ID: 600-71454-27

Date Collected: 04/11/13 12:03
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	3.64		0.290	0.0298	mg/Kg	☼	04/19/13 13:18	04/19/13 19:40	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14100	b	4.85	1.02	mg/Kg		04/19/13 13:18	04/22/13 10:22	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			04/19/13 12:16	1
Percent Solids	84		1.0	1.0	%			04/19/13 12:16	1

Client Sample ID: 2013-BSB-7 (2-4)

Lab Sample ID: 600-71454-29

Date Collected: 04/10/13 16:01
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 86.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.130	J	0.282	0.0289	mg/Kg	☼	04/19/13 13:18	04/19/13 19:43	1
Lead	221	b	0.564	0.118	mg/Kg	☼	04/19/13 13:18	04/19/13 19:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	87		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-7 (4-5)

Lab Sample ID: 600-71454-30

Date Collected: 04/10/13 16:02
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 92.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.130	J	0.272	0.0279	mg/Kg	☼	04/19/13 13:18	04/19/13 19:45	1
Lead	56.6	b	0.544	0.114	mg/Kg	☼	04/19/13 13:18	04/19/13 19:45	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	92		1.0	1.0	%			04/14/13 10:11	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Client Sample ID: 2013-BSB-7 (8-10)

Lab Sample ID: 600-71454-31

Date Collected: 04/10/13 16:03
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 72.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.98		0.324	0.0332	mg/Kg	☼	04/19/13 13:18	04/19/13 19:47	1
Lead	3050	b	0.648	0.136	mg/Kg	☼	04/19/13 13:18	04/19/13 19:47	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	72		1.0	1.0	%			04/14/13 10:11	1

Client Sample ID: 2013-BSB-7 (11)

Lab Sample ID: 600-71454-32

Date Collected: 04/10/13 16:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 69.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.449		0.335	0.0344	mg/Kg	☼	04/19/13 13:18	04/19/13 19:50	1
Lead	17.6	b	0.670	0.141	mg/Kg	☼	04/19/13 13:18	04/19/13 19:50	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		1.0	1.0	%			04/14/13 10:11	1
Percent Solids	70		1.0	1.0	%			04/14/13 10:11	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
b	The compound was found in the blank and sample
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.
F	Duplicate RPD exceeds the control limit

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104352/1-A
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104352

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/19/13 12:06	04/19/13 18:02	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/19/13 12:06	04/19/13 18:02	1

Lab Sample ID: LCSSRM 600-104352/2-A
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	88.40		mg/Kg		85.8	83.6 - 115.5
Lead	76.9	68.52		mg/Kg		89.1	81.3 - 118.7

Lab Sample ID: 600-71454-3 MS
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.695		27.3	26.82		mg/Kg	☼	96	75 - 125
Lead	586		54.7	2964	4	mg/Kg	☼	4350	75 - 125

Lab Sample ID: 600-71454-3 MSD
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.695		28.7	29.25		mg/Kg	☼	100	75 - 125	9	20
Lead	586		57.3	502.5	4 N	mg/Kg	☼	-146	75 - 125	142	20

Lab Sample ID: 600-71454-7 MS
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-10 (2-4)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0308	U	29.7	28.73		mg/Kg	☼	97	75 - 125
Lead	8.88		59.4	65.12		mg/Kg	☼	95	75 - 125

Lab Sample ID: 600-71454-7 MSD
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-10 (2-4)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.0308	U	27.8	26.84		mg/Kg	☼	97	75 - 125	7	20
Lead	8.88		55.6	62.29		mg/Kg	☼	96	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-71454-3 DU
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-6 (4-5)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	0.695			0.8449		mg/Kg	☼			19	20
Lead	586			703.7		mg/Kg	☼			18	20

Lab Sample ID: 600-71454-7 DU
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: 2013-BSB-10 (2-4)
Prep Type: Total/NA
Prep Batch: 104352

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cadmium	0.0308	U		0.03365	J	mg/Kg	☼			NC	20
Lead	8.88			6.220	F	mg/Kg	☼			35	20

Lab Sample ID: MB 600-104367/1-A
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104367

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/19/13 13:18	04/19/13 19:36	1
Lead	0.2000	J	0.500	0.105	mg/Kg		04/19/13 13:18	04/19/13 19:36	1

Lab Sample ID: LCSSRM 600-104367/2-A
Matrix: Solid
Analysis Batch: 104394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104367

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	89.37		mg/Kg		86.8	83.6 - 115.5		
Lead			76.9	69.08		mg/Kg		89.8	81.3 - 118.7		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-71454-30 DU
Matrix: Solid
Analysis Batch: 103909

Client Sample ID: 2013-BSB-7 (4-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.0			17	F	%				71	20
Percent Solids	92			83		%				10	20

Lab Sample ID: 600-71454-12 DU
Matrix: Solid
Analysis Batch: 104356

Client Sample ID: 2013-BSB-2 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15			12		%				20	20
Percent Solids	85			88		%				3	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 600-71454-24 DU
Matrix: Solid
Analysis Batch: 104356

Client Sample ID: 2013-BSB-1 (8-10)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	24			22		%				9	20
Percent Solids	76			78		%				3	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-2	2013-BSB-6 (2-4)	Total/NA	Solid	3050B	
600-71454-3	2013-BSB-6 (4-5)	Total/NA	Solid	3050B	
600-71454-3 DU	2013-BSB-6 (4-5)	Total/NA	Solid	3050B	
600-71454-3 MS	2013-BSB-6 (4-5)	Total/NA	Solid	3050B	
600-71454-3 MSD	2013-BSB-6 (4-5)	Total/NA	Solid	3050B	
600-71454-4	2013-BSB-6 (8-10)	Total/NA	Solid	3050B	
600-71454-5	2013-BSB-6 (11.1')	Total/NA	Solid	3050B	
600-71454-7	2013-BSB-10 (2-4)	Total/NA	Solid	3050B	
600-71454-7 DU	2013-BSB-10 (2-4)	Total/NA	Solid	3050B	
600-71454-7 MS	2013-BSB-10 (2-4)	Total/NA	Solid	3050B	
600-71454-7 MSD	2013-BSB-10 (2-4)	Total/NA	Solid	3050B	
600-71454-8	2013-BSB-10 (4-5)	Total/NA	Solid	3050B	
600-71454-9	2013-BSB-10 (8-10)	Total/NA	Solid	3050B	
600-71454-10	2013-BSB-10 (11.4)	Total/NA	Solid	3050B	
600-71454-12	2013-BSB-2 (2-4)	Total/NA	Solid	3050B	
600-71454-13	2013-BSB-2 (4-5)	Total/NA	Solid	3050B	
600-71454-14	2013-BSB-2 (8-10)	Total/NA	Solid	3050B	
600-71454-15	2013-BSB-2 (11.2)	Total/NA	Solid	3050B	
600-71454-17	2013-BSB-5 (2-4)	Total/NA	Solid	3050B	
600-71454-18	2013-BSB-5 (4-5)	Total/NA	Solid	3050B	
600-71454-19	2013-BSB-5 (8-10)	Total/NA	Solid	3050B	
600-71454-20	2013-BSB-5 (11.2)	Total/NA	Solid	3050B	
600-71454-22	2013-BSB-1 (2-4)	Total/NA	Solid	3050B	
600-71454-23	2013-BSB-1 (4-5)	Total/NA	Solid	3050B	
600-71454-24	2013-BSB-1 (8-10)	Total/NA	Solid	3050B	
600-71454-24 - DL	2013-BSB-1 (8-10)	Total/NA	Solid	3050B	
600-71454-25	2013-BSB-1 (11.6)	Total/NA	Solid	3050B	
LCSSRM 600-104352/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104352/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 104367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-27	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	3050B	
600-71454-27 - DL	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	3050B	
600-71454-29	2013-BSB-7 (2-4)	Total/NA	Solid	3050B	
600-71454-30	2013-BSB-7 (4-5)	Total/NA	Solid	3050B	
600-71454-31	2013-BSB-7 (8-10)	Total/NA	Solid	3050B	
600-71454-32	2013-BSB-7 (11)	Total/NA	Solid	3050B	
LCSSRM 600-104367/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104367/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-2	2013-BSB-6 (2-4)	Total/NA	Solid	6010B	104352
600-71454-3	2013-BSB-6 (4-5)	Total/NA	Solid	6010B	104352
600-71454-3 DU	2013-BSB-6 (4-5)	Total/NA	Solid	6010B	104352
600-71454-3 MS	2013-BSB-6 (4-5)	Total/NA	Solid	6010B	104352
600-71454-3 MSD	2013-BSB-6 (4-5)	Total/NA	Solid	6010B	104352
600-71454-4	2013-BSB-6 (8-10)	Total/NA	Solid	6010B	104352
600-71454-5	2013-BSB-6 (11.1')	Total/NA	Solid	6010B	104352
600-71454-7	2013-BSB-10 (2-4)	Total/NA	Solid	6010B	104352

Metals (Continued)

Analysis Batch: 104394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-7 DU	2013-BSB-10 (2-4)	Total/NA	Solid	6010B	104352
600-71454-7 MS	2013-BSB-10 (2-4)	Total/NA	Solid	6010B	104352
600-71454-7 MSD	2013-BSB-10 (2-4)	Total/NA	Solid	6010B	104352
600-71454-8	2013-BSB-10 (4-5)	Total/NA	Solid	6010B	104352
600-71454-9	2013-BSB-10 (8-10)	Total/NA	Solid	6010B	104352
600-71454-10	2013-BSB-10 (11.4)	Total/NA	Solid	6010B	104352
600-71454-12	2013-BSB-2 (2-4)	Total/NA	Solid	6010B	104352
600-71454-13	2013-BSB-2 (4-5)	Total/NA	Solid	6010B	104352
600-71454-14	2013-BSB-2 (8-10)	Total/NA	Solid	6010B	104352
600-71454-15	2013-BSB-2 (11.2)	Total/NA	Solid	6010B	104352
600-71454-17	2013-BSB-5 (2-4)	Total/NA	Solid	6010B	104352
600-71454-18	2013-BSB-5 (4-5)	Total/NA	Solid	6010B	104352
600-71454-19	2013-BSB-5 (8-10)	Total/NA	Solid	6010B	104352
600-71454-20	2013-BSB-5 (11.2)	Total/NA	Solid	6010B	104352
600-71454-22	2013-BSB-1 (2-4)	Total/NA	Solid	6010B	104352
600-71454-23	2013-BSB-1 (4-5)	Total/NA	Solid	6010B	104352
600-71454-24	2013-BSB-1 (8-10)	Total/NA	Solid	6010B	104352
600-71454-25	2013-BSB-1 (11.6)	Total/NA	Solid	6010B	104352
600-71454-27	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	6010B	104367
600-71454-29	2013-BSB-7 (2-4)	Total/NA	Solid	6010B	104367
600-71454-30	2013-BSB-7 (4-5)	Total/NA	Solid	6010B	104367
600-71454-31	2013-BSB-7 (8-10)	Total/NA	Solid	6010B	104367
600-71454-32	2013-BSB-7 (11)	Total/NA	Solid	6010B	104367
LCSSRM 600-104352/2-A	Lab Control Sample	Total/NA	Solid	6010B	104352
LCSSRM 600-104367/2-A	Lab Control Sample	Total/NA	Solid	6010B	104367
MB 600-104352/1-A	Method Blank	Total/NA	Solid	6010B	104352
MB 600-104367/1-A	Method Blank	Total/NA	Solid	6010B	104367

Analysis Batch: 104449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-24 - DL	2013-BSB-1 (8-10)	Total/NA	Solid	6010B	104352
600-71454-27 - DL	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	6010B	104367

General Chemistry

Analysis Batch: 103909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-29	2013-BSB-7 (2-4)	Total/NA	Solid	Moisture	
600-71454-30	2013-BSB-7 (4-5)	Total/NA	Solid	Moisture	
600-71454-30 DU	2013-BSB-7 (4-5)	Total/NA	Solid	Moisture	
600-71454-31	2013-BSB-7 (8-10)	Total/NA	Solid	Moisture	
600-71454-32	2013-BSB-7 (11)	Total/NA	Solid	Moisture	

Analysis Batch: 104356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-2	2013-BSB-6 (2-4)	Total/NA	Solid	Moisture	
600-71454-3	2013-BSB-6 (4-5)	Total/NA	Solid	Moisture	
600-71454-4	2013-BSB-6 (8-10)	Total/NA	Solid	Moisture	
600-71454-5	2013-BSB-6 (11.1')	Total/NA	Solid	Moisture	
600-71454-7	2013-BSB-10 (2-4)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 104356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-8	2013-BSB-10 (4-5)	Total/NA	Solid	Moisture	
600-71454-9	2013-BSB-10 (8-10)	Total/NA	Solid	Moisture	
600-71454-10	2013-BSB-10 (11.4)	Total/NA	Solid	Moisture	
600-71454-12	2013-BSB-2 (2-4)	Total/NA	Solid	Moisture	
600-71454-12 DU	2013-BSB-2 (2-4)	Total/NA	Solid	Moisture	
600-71454-13	2013-BSB-2 (4-5)	Total/NA	Solid	Moisture	
600-71454-14	2013-BSB-2 (8-10)	Total/NA	Solid	Moisture	
600-71454-15	2013-BSB-2 (11.2)	Total/NA	Solid	Moisture	
600-71454-17	2013-BSB-5 (2-4)	Total/NA	Solid	Moisture	
600-71454-18	2013-BSB-5 (4-5)	Total/NA	Solid	Moisture	
600-71454-19	2013-BSB-5 (8-10)	Total/NA	Solid	Moisture	
600-71454-20	2013-BSB-5 (11.2)	Total/NA	Solid	Moisture	
600-71454-22	2013-BSB-1 (2-4)	Total/NA	Solid	Moisture	
600-71454-23	2013-BSB-1 (4-5)	Total/NA	Solid	Moisture	
600-71454-24	2013-BSB-1 (8-10)	Total/NA	Solid	Moisture	
600-71454-24 DU	2013-BSB-1 (8-10)	Total/NA	Solid	Moisture	
600-71454-25	2013-BSB-1 (11.6)	Total/NA	Solid	Moisture	
600-71454-27	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-BSB-6 (2-4)

Lab Sample ID: 600-71454-2

Date Collected: 04/11/13 08:51
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-6 (4-5)

Lab Sample ID: 600-71454-3

Date Collected: 04/11/13 08:52
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-6 (8-10)

Lab Sample ID: 600-71454-4

Date Collected: 04/11/13 08:53
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:18	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-6 (11.1')

Lab Sample ID: 600-71454-5

Date Collected: 04/11/13 08:54
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-10 (2-4)

Lab Sample ID: 600-71454-7

Date Collected: 04/11/13 09:36
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:32	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-10 (4-5)

Date Collected: 04/11/13 08:37
Date Received: 04/12/13 08:51

Lab Sample ID: 600-71454-8

Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-10 (8-10)

Date Collected: 04/11/13 08:38
Date Received: 04/12/13 08:51

Lab Sample ID: 600-71454-9

Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:44	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-10 (11.4)

Date Collected: 04/11/13 09:39
Date Received: 04/12/13 08:51

Lab Sample ID: 600-71454-10

Matrix: Solid
Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:46	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-2 (2-4)

Date Collected: 04/11/13 10:26
Date Received: 04/12/13 08:51

Lab Sample ID: 600-71454-12

Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:48	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-2 (4-5)

Date Collected: 04/11/13 10:27
Date Received: 04/12/13 08:51

Lab Sample ID: 600-71454-13

Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:51	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-2 (8-10)

Lab Sample ID: 600-71454-14

Date Collected: 04/11/13 10:28
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 18:53	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-2 (11.2)

Lab Sample ID: 600-71454-15

Date Collected: 04/11/13 10:29
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:03	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-5 (2-4)

Lab Sample ID: 600-71454-17

Date Collected: 04/11/13 11:05
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:05	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-5 (4-5)

Lab Sample ID: 600-71454-18

Date Collected: 04/11/13 11:06
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:07	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-5 (8-10)

Lab Sample ID: 600-71454-19

Date Collected: 04/11/13 11:07
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:10	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-5 (11.2)

Lab Sample ID: 600-71454-20

Date Collected: 04/11/13 11:08
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-1 (2-4)

Lab Sample ID: 600-71454-22

Date Collected: 04/11/13 12:01
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:15	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-1 (4-5)

Lab Sample ID: 600-71454-23

Date Collected: 04/11/13 12:02
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-1 (8-10)

Lab Sample ID: 600-71454-24

Date Collected: 04/11/13 12:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:19	DCL	TAL HOU
Total/NA	Prep	3050B	DL		104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B	DL	20	104449	04/22/13 10:13	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-1 (11.6)

Lab Sample ID: 600-71454-25

Date Collected: 04/11/13 12:05
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104352	04/19/13 12:06	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-1 (6.3-7.7)

Lab Sample ID: 600-71454-27

Date Collected: 04/11/13 12:03
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:40	DCL	TAL HOU
Total/NA	Prep	3050B	DL		104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	104449	04/22/13 10:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104356	04/19/13 12:16	AS	TAL HOU

Client Sample ID: 2013-BSB-7 (2-4)

Lab Sample ID: 600-71454-29

Date Collected: 04/10/13 16:01
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:43	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (4-5)

Lab Sample ID: 600-71454-30

Date Collected: 04/10/13 16:02
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (8-10)

Lab Sample ID: 600-71454-31

Date Collected: 04/10/13 16:03
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:47	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (11)

Lab Sample ID: 600-71454-32

Date Collected: 04/10/13 16:04
Matrix: Solid
Date Received: 04/12/13 08:51
Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104367	04/19/13 13:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	104394	04/19/13 19:50	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	103909	04/14/13 10:11	MB	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

No. 44301

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER:
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr.	BILL TO:
Suite 4004	ADDRESS:
Round Rock, TX 78664	
PHONE: 512/671-3434	PHONE:
FAX:	FAX: PO NO:

NUMBER OF CONTAINERS

ANALYSIS/METHOD REQUEST: Pb, Cd; MS/MSD

LAB JOB NO.

600-71454 Chain of Custody

IR GUN ID

INITIAL/DATE

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	Pb, Cd	MS/MSD	REMARKS/PRECAUTIONS.
	2013-BSB-6(0.9-2)	4/11/13	0850	Soil	4oz	Ice		X	
	2013-BSB-6(2-4)		0851						Hold
	2013-BSB-6(4-5)		0852						Hold
	2013-BSB-6(8-10)		0853						Hold
	2013-BSB-6(11.1')		0854						Hold
	2013-BSB-10(0.9-2)		0935						
	2013-BSB-10(2-4)		0936						Hold
	2013-BSB-10(4-5)		0937						Hold
	2013-BSB-10(8-10)		0938						Hold
	2013-BSB-10(11.4)		0939						Hold
	2013-BSB-2(0.9-2)	↓	1025	↓	↓	↓	↓		

SAMPLER: Roberta Russell, Patrick Ferrell

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hours

1. RELINQUISHED BY: Kevin Dwoesky	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:	4/11/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1505	PRINTED NAME/COMPANY: TA	TIME 1710	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:		SIGNATURE:	04/12/13
PRINTED NAME/COMPANY: TA	TIME 1585	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulumbarit / TAH	TIME 0851

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
~~Corpus Christi, TX 78408~~
Houston
Phone: 361.289.2673/Fax: 361.289.2471

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	4/11/13	225355
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr., Suite 4004	512/671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664		
Project Name and Location (State)	**Carrier/Waybill Number**	
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	1C6	Pb,Cd	Special Instructions/ Conditions of Receipt
2013-BSB-2(2-4)	4/11/13	1026				X							X	X	Hold
2013-BSB-2(4-5)		1027													Hold
2013-BSB-2(9-10)		1028													Hold
2013-BSB-2(11.2)		1029													Hold
2013-BSB-5(0.9-2)		1104													
2013-BSB-5(2-4)		1105													Hold
2013-BSB-5(4-5)		1106													Hold
2013-BSB-5(9-10)		1107													Hold
2013-BSB-5(11.2)		11.08													Hold
2013-BSB-1(0.9-2)		1200													
2013-BSB-1(2-4)		1201													Hold
2013-BSB-1(4-5)		1202													Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/11/13	1505	1. Received By	4/11/13	1505
2. Relinquished By	4/11/13	1700	2. Received By		
3. Relinquished By			3. Received By	04/12/13	0857

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & 3 wheeler	Will Vienne	4/11/13	225357
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr., Suite 4004	512/671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/ NaOH	ICG	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-1(8-10)	4/11/13	1204				X							X	X	Hold
2013-BSB-1(11.6)	↓	1205				↓							↓	↓	Hold
DUP-10	↓					↓							↓	↓	
2013-BSB-1(6.3-7.7)	↓	1203				↓							↓	↓	Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/11/13	1505	1. Received By: McCone	4/11/13	1585
2. Relinquished By: McCone	4/11/13	1700	2. Received By		
3. Relinquished By			3. Received By	04/12/13	0857

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Upton, Cathy

From: Taryn Scholz [taryn@qaallc.com]
Sent: Thursday, June 13, 2013 11:08 AM
To: Kudchadkar, Sachin
Cc: Upton, Cathy; Roberta Russell; Will Vienne
Subject: Re: Exide
Follow Up Flag: Follow up
Flag Status: Red

One other note - I haven't reviewed the May data yet and will likely need some PDS/SD data for that. Thanks so much for providing that additional info each time I've requested it.

On 6/13/2013 11:01 AM, Taryn Scholz wrote:

> Hi Sachin,
>
> We're getting close! I've listed below what I show as outstanding for this data set - in order of priority. Please let me know if I've made an error or you have any questions.
>
> Thanks so much, Taryn
>
> 1. For 600-48997-2 - This report is the one with the Jan 2012 samples split out from the original report. It did not pick up the QC for the dissolved samples (prep batch 70924 with alyt batch 71248). Can you please add in?
>
> 2. For 600-70120-1, please add As to sample 28. (A prelim report was submitted for this - and a final report for 600-70120-3 with As added to sample 18 instead of sample 28.)
>
> 3. For J71454, please change sample dates for samples 28 to 32 from 4/11/13 to 4/10/13 (and add the sample times) per the email below. This affects job IDs 600-71454-1, 600-71454-2 and 600-71454-3.
>
> 4. For J72120, please change sample dates for samples 5 to 7 from 4/22/13 to 4/23/13 per COC. There's only one job ID for this (600-72120-1)
>
> 5. For 600-70064-1, TX1006 results are reported for sample 27 but TX1005 was not requested for this sample and thus no surrogate recoveries are reported. Is it possible to get the recoveries for the extraction process for this sample? I've got nothing to go on except one LCS recovery for >C6-C35. (Note: TX1005 is reported for sample 29, which is from the same location.)
>
> 6. Please add MTBE results to the following samples, followed by job number:
>
> 2013-RMSA-6 (2.6-3.3'), 69726-1
> 2013-STB-2 (4-5') , 69726-1
> 2013-STB-6 (0.5-1.1') , 70064-1
> 2013-STB-11 (0.5-1.3') , 70064-1
> 2013-MB-1 (0-2'), 70064-1
> 2013-MB-1 (4-5') , 70064-1
> 2013-MB-2 (0-2') , 70064-1
> 2013-RMSB-4 (0-2'), 72755-1
> 2013-RMSB-4 (2-5) , 72755-1
> 2013-RMSB-4 (5-6) , 72755-1
> 2013-RMSB-5 (2-5) , 72755-1
>
> 7. For 600-74152-1, final report not yet submitted for these samples received on 6/5/13. I don't know of any other work orders needed - though I might be unaware of some hold samples that have been released.

Subject: RE: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec
Date: Fri, 12 Apr 2013 23:55:19 +0000
From: Roberta Russell <roberta.russell@pbwllc.com>
To: sachin.kudchadkar@testamericainc.com <sachin.kudchadkar@testamericainc.com>, Cheryl Cunningham <cheryl.cunningham@pbwllc.com>, Eric Pastor <eric.pastor@pbwllc.com>, Ms. Taryn Scholz <taryn@qaallc.com>, Will Vienne <will.vienne@pbwllc.com>

Sachin:

Below is the information regarding those samples :

2013-BSB-7 (0.9-2) Collected 4/10/13, 16:00 - Pb and Cd
2013-BSB-7 (2-4) Collected 4/10/13, 16:01 (Hold) - Pb and Cd
2013-BSB-7 (4-5) Collected 4/10/13, 16:02 (Hold) - Pb and Cd
2013-BSB-7 (8-10) Collected 4/10/13, 16:03 (Hold) - Pb and Cd
2013-BSB-7 (11) Collected 4/10/13, 16:04 (Hold) - Pb and Cd

Thanks,

Roberta

From: Kudchadkar, Sachin [sachin.kudchadkar@testamericainc.com]
Sent: Friday, April 12, 2013 5:07 PM
To: Cheryl Cunningham; Eric Pastor; Roberta Russell; Ms. Taryn Scholz; Will Vienne
Subject: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec

Samples 600-71454-28, -29, -30, -31, -32 were received but not listed on the chain of custody. Please advise.

Thanks

SACHIN G KUDCHADKAR

TestAmerica Houston
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 713.690.4444
www.testamericainc.com

Reference: [145656]
Attachments: 1

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-2

Login Number: 71454

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-71454-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 6:25:53 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 7
Method Summary 8
Sample Summary 9
Client Sample Results 10
Definitions/Glossary 15
QC Sample Results 16
Default Detection Limits 17
QC Association Summary 18
Lab Chronicle 19
Certification Summary 25
Chain of Custody 26
Receipt Checklists 32

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-71454

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Donnie Combs		4/26/13
Name (printed)	Signature	Date
Quality Control Assistant		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71454-3
Reviewer Name: BDG	Prep Batch Number(s): 104426, 104514 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			2
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71454-3
Reviewer Name: BDG	Prep Batch Number(s): 104426, 104514 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/22/13
Project Name: Exide Recycling Center, Frisco TX Projec	Laboratory Job Number: 600-71454-3
Reviewer Name: BDG	Prep Batch Number(s): 104426, 104514 - pH

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Job ID: 600-71454-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-71454-3

Comments
The report was revised on 06/18/13 to update sample IDs for samples 28-32 per client's email.

Receipt
The samples were received on 4/12/2013 8:51 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 2013-BSB-7 (0.9-2), 2013-BSB-7 (2-4), 2013-BSB-7 (4-5), 2013-BSB-7 (8-10), and 2013-BSB-7 (11').

Method(s) 9045C: All associated samples were activated for pH analysis by the client via phone call on 4/19/13. This analysis was not originally requested on the chain-of-custody (COC).

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Method	Method Description	Protocol	Laboratory
9045C	pH	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-71454-1	2013-BSB-6 (0.9-2)	Solid	04/11/13 08:50	04/12/13 08:51
600-71454-2	2013-BSB-6 (2-4)	Solid	04/11/13 08:51	04/12/13 08:51
600-71454-3	2013-BSB-6 (4-5)	Solid	04/11/13 08:52	04/12/13 08:51
600-71454-4	2013-BSB-6 (8-10)	Solid	04/11/13 08:53	04/12/13 08:51
600-71454-5	2013-BSB-6 (11.1')	Solid	04/11/13 08:54	04/12/13 08:51
600-71454-6	2013-BSB-10 (0.9-2)	Solid	04/11/13 09:35	04/12/13 08:51
600-71454-7	2013-BSB-10 (2-4)	Solid	04/11/13 09:36	04/12/13 08:51
600-71454-8	2013-BSB-10 (4-5)	Solid	04/11/13 08:37	04/12/13 08:51
600-71454-9	2013-BSB-10 (8-10)	Solid	04/11/13 08:38	04/12/13 08:51
600-71454-10	2013-BSB-10 (11.4)	Solid	04/11/13 09:39	04/12/13 08:51
600-71454-11	2013-BSB-2 (0.9-2)	Solid	04/11/13 10:25	04/12/13 08:51
600-71454-12	2013-BSB-2 (2-4)	Solid	04/11/13 10:26	04/12/13 08:51
600-71454-13	2013-BSB-2 (4-5)	Solid	04/11/13 10:27	04/12/13 08:51
600-71454-14	2013-BSB-2 (8-10)	Solid	04/11/13 10:28	04/12/13 08:51
600-71454-15	2013-BSB-2 (11.2)	Solid	04/11/13 10:29	04/12/13 08:51
600-71454-16	2013-BSB-5 (0.9-2)	Solid	04/11/13 11:04	04/12/13 08:51
600-71454-17	2013-BSB-5 (2-4)	Solid	04/11/13 11:05	04/12/13 08:51
600-71454-18	2013-BSB-5 (4-5)	Solid	04/11/13 11:06	04/12/13 08:51
600-71454-19	2013-BSB-5 (8-10)	Solid	04/11/13 11:07	04/12/13 08:51
600-71454-20	2013-BSB-5 (11.2)	Solid	04/11/13 11:08	04/12/13 08:51
600-71454-21	2013-BSB-1 (0.9-2)	Solid	04/11/13 12:00	04/12/13 08:51
600-71454-22	2013-BSB-1 (2-4)	Solid	04/11/13 12:01	04/12/13 08:51
600-71454-23	2013-BSB-1 (4-5)	Solid	04/11/13 12:02	04/12/13 08:51
600-71454-24	2013-BSB-1 (8-10)	Solid	04/11/13 12:04	04/12/13 08:51
600-71454-25	2013-BSB-1 (11.6)	Solid	04/11/13 12:05	04/12/13 08:51
600-71454-26	DUP-10	Solid	04/11/13 00:00	04/12/13 08:51
600-71454-27	2013-BSB-1 (6.3-7.7)	Solid	04/11/13 12:03	04/12/13 08:51
600-71454-28	2013-BSB-7 (0.9-2)	Solid	04/10/13 16:00	04/12/13 08:51
600-71454-29	2013-BSB-7 (2-4)	Solid	04/10/13 16:01	04/12/13 08:51
600-71454-30	2013-BSB-7 (4-5)	Solid	04/10/13 16:02	04/12/13 08:51
600-71454-31	2013-BSB-7 (8-10)	Solid	04/10/13 16:03	04/12/13 08:51
600-71454-32	2013-BSB-7 (11)	Solid	04/10/13 16:04	04/12/13 08:51

Client Sample ID: 2013-BSB-6 (0.9-2) — **Lab Sample ID: 600-71454-1**
Date Collected: 04/11/13 08:50 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-6 (2-4) — **Lab Sample ID: 600-71454-2**
Date Collected: 04/11/13 08:51 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.56	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-6 (4-5) — **Lab Sample ID: 600-71454-3**
Date Collected: 04/11/13 08:52 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.39	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-6 (8-10) — **Lab Sample ID: 600-71454-4**
Date Collected: 04/11/13 08:53 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-6 (11.1') — **Lab Sample ID: 600-71454-5**
Date Collected: 04/11/13 08:54 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-10 (0.9-2) — **Lab Sample ID: 600-71454-6**
Date Collected: 04/11/13 09:35 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-10 (2-4) — **Lab Sample ID: 600-71454-7**
Date Collected: 04/11/13 09:36 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-10 (4-5) — **Lab Sample ID: 600-71454-8**
Date Collected: 04/11/13 08:37 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-10 (8-10) — **Lab Sample ID: 600-71454-9**
Date Collected: 04/11/13 08:38 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-10 (11.4) — **Lab Sample ID: 600-71454-10**
Date Collected: 04/11/13 09:39 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-2 (0.9-2) — **Lab Sample ID: 600-71454-11**
Date Collected: 04/11/13 10:25 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-2 (2-4) — **Lab Sample ID: 600-71454-12**
Date Collected: 04/11/13 10:26 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-2 (4-5) — **Lab Sample ID: 600-71454-13**
Date Collected: 04/11/13 10:27 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-2 (8-10) — **Lab Sample ID: 600-71454-14**
Date Collected: 04/11/13 10:28 — **Matrix: Solid**
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-2 (11.2) — **Lab Sample ID: 600-71454-15**
Date Collected: 04/11/13 10:29 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-5 (0.9-2) — **Lab Sample ID: 600-71454-16**
Date Collected: 04/11/13 11:04 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.72	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-5 (2-4) — **Lab Sample ID: 600-71454-17**
Date Collected: 04/11/13 11:05 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-5 (4-5) — **Lab Sample ID: 600-71454-18**
Date Collected: 04/11/13 11:06 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-5 (8-10) — **Lab Sample ID: 600-71454-19**
Date Collected: 04/11/13 11:07 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.22	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-5 (11.2) — **Lab Sample ID: 600-71454-20**
Date Collected: 04/11/13 11:08 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (0.9-2) — **Lab Sample ID: 600-71454-21**
Date Collected: 04/11/13 12:00 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.02	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (2-4) — **Lab Sample ID: 600-71454-22**
Date Collected: 04/11/13 12:01 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (4-5) — **Lab Sample ID: 600-71454-23**
Date Collected: 04/11/13 12:02 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (8-10) — **Lab Sample ID: 600-71454-24**
Date Collected: 04/11/13 12:04 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.14	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (11.6) — **Lab Sample ID: 600-71454-25**
Date Collected: 04/11/13 12:05 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: DUP-10 — **Lab Sample ID: 600-71454-26**
Date Collected: 04/11/13 00:00 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.18	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-1 (6.3-7.7) — **Lab Sample ID: 600-71454-27**
Date Collected: 04/11/13 12:03 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-7 (0.9-2) — **Lab Sample ID: 600-71454-28**
Date Collected: 04/10/13 16:00 — Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Client Sample ID: 2013-BSB-7 (2-4)

Lab Sample ID: 600-71454-29

Date Collected: 04/10/13 16:01
Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-7 (4-5)

Lab Sample ID: 600-71454-30

Date Collected: 04/10/13 16:02
Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-7 (8-10)

Lab Sample ID: 600-71454-31

Date Collected: 04/10/13 16:03
Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26	H	0.0100	0.0100	SU			04/21/13 10:45	1

Client Sample ID: 2013-BSB-7 (11)

Lab Sample ID: 600-71454-32

Date Collected: 04/10/13 16:04
Matrix: Solid
Date Received: 04/12/13 08:51

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62	H	0.0100	0.0100	SU			04/21/13 10:45	1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 9045C - pH

Lab Sample ID: LCS 600-104426/1
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99 - 101

Lab Sample ID: LCS 600-104426/26
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99 - 101

Lab Sample ID: 600-71454-1 DU
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: 2013-BSB-6 (0.9-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.14	H	8.140		SU		0	1

Lab Sample ID: 600-71454-A-11 DU
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: 600-71454-A-11 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH			7.890		SU			

Lab Sample ID: 600-71454-A-21 DU
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: 600-71454-A-21 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH			7.020		SU			

Lab Sample ID: 600-71454-A-31 DU
Matrix: Solid
Analysis Batch: 104426

Client Sample ID: 600-71454-A-31 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH			7.260		SU			

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

General Chemistry

Analyte	MQL	MDL	Units	Method
pH	0.0100	0.0100	SU	9045C

General Chemistry

Analysis Batch: 104426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-71454-1	2013-BSB-6 (0.9-2)	Total/NA	Solid	9045C	
600-71454-1 DU	2013-BSB-6 (0.9-2)	Total/NA	Solid	9045C	
600-71454-2	2013-BSB-6 (2-4)	Total/NA	Solid	9045C	
600-71454-3	2013-BSB-6 (4-5)	Total/NA	Solid	9045C	
600-71454-4	2013-BSB-6 (8-10)	Total/NA	Solid	9045C	
600-71454-5	2013-BSB-6 (11.1')	Total/NA	Solid	9045C	
600-71454-6	2013-BSB-10 (0.9-2)	Total/NA	Solid	9045C	
600-71454-7	2013-BSB-10 (2-4)	Total/NA	Solid	9045C	
600-71454-8	2013-BSB-10 (4-5)	Total/NA	Solid	9045C	
600-71454-9	2013-BSB-10 (8-10)	Total/NA	Solid	9045C	
600-71454-10	2013-BSB-10 (11.4)	Total/NA	Solid	9045C	
600-71454-11	2013-BSB-2 (0.9-2)	Total/NA	Solid	9045C	
600-71454-12	2013-BSB-2 (2-4)	Total/NA	Solid	9045C	
600-71454-13	2013-BSB-2 (4-5)	Total/NA	Solid	9045C	
600-71454-14	2013-BSB-2 (8-10)	Total/NA	Solid	9045C	
600-71454-15	2013-BSB-2 (11.2)	Total/NA	Solid	9045C	
600-71454-16	2013-BSB-5 (0.9-2)	Total/NA	Solid	9045C	
600-71454-17	2013-BSB-5 (2-4)	Total/NA	Solid	9045C	
600-71454-18	2013-BSB-5 (4-5)	Total/NA	Solid	9045C	
600-71454-19	2013-BSB-5 (8-10)	Total/NA	Solid	9045C	
600-71454-20	2013-BSB-5 (11.2)	Total/NA	Solid	9045C	
600-71454-21	2013-BSB-1 (0.9-2)	Total/NA	Solid	9045C	
600-71454-22	2013-BSB-1 (2-4)	Total/NA	Solid	9045C	
600-71454-23	2013-BSB-1 (4-5)	Total/NA	Solid	9045C	
600-71454-24	2013-BSB-1 (8-10)	Total/NA	Solid	9045C	
600-71454-25	2013-BSB-1 (11.6)	Total/NA	Solid	9045C	
600-71454-26	DUP-10	Total/NA	Solid	9045C	
600-71454-27	2013-BSB-1 (6.3-7.7)	Total/NA	Solid	9045C	
600-71454-28	2013-BSB-7 (0.9-2)	Total/NA	Solid	9045C	
600-71454-29	2013-BSB-7 (2-4)	Total/NA	Solid	9045C	
600-71454-30	2013-BSB-7 (4-5)	Total/NA	Solid	9045C	
600-71454-31	2013-BSB-7 (8-10)	Total/NA	Solid	9045C	
600-71454-32	2013-BSB-7 (11)	Total/NA	Solid	9045C	
600-71454-A-11 DU	600-71454-A-11 DU	Total/NA	Solid	9045C	
600-71454-A-21 DU	600-71454-A-21 DU	Total/NA	Solid	9045C	
600-71454-A-31 DU	600-71454-A-31 DU	Total/NA	Solid	9045C	
LCS 600-104426/1	Lab Control Sample	Total/NA	Solid	9045C	
LCS 600-104426/26	Lab Control Sample	Total/NA	Solid	9045C	

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Client Sample ID: 2013-BSB-6 (0.9-2) — **Lab Sample ID: 600-71454-1**
Date Collected: 04/11/13 08:50 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-6 (2-4) — **Lab Sample ID: 600-71454-2**
Date Collected: 04/11/13 08:51 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-6 (4-5) — **Lab Sample ID: 600-71454-3**
Date Collected: 04/11/13 08:52 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-6 (8-10) — **Lab Sample ID: 600-71454-4**
Date Collected: 04/11/13 08:53 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-6 (11.1') — **Lab Sample ID: 600-71454-5**
Date Collected: 04/11/13 08:54 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (0.9-2) — **Lab Sample ID: 600-71454-6**
Date Collected: 04/11/13 09:35 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (2-4) — **Lab Sample ID: 600-71454-7**
Date Collected: 04/11/13 09:36 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (4-5) — **Lab Sample ID: 600-71454-8**
Date Collected: 04/11/13 08:37 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (8-10) — **Lab Sample ID: 600-71454-9**
Date Collected: 04/11/13 08:38 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-10 (11.4) — **Lab Sample ID: 600-71454-10**
Date Collected: 04/11/13 09:39 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-2 (0.9-2) — **Lab Sample ID: 600-71454-11**
Date Collected: 04/11/13 10:25 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-2 (2-4) — **Lab Sample ID: 600-71454-12**
Date Collected: 04/11/13 10:26 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Client Sample ID: 2013-BSB-2 (4-5)

Lab Sample ID: 600-71454-13

Date Collected: 04/11/13 10:27
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-2 (8-10)

Lab Sample ID: 600-71454-14

Date Collected: 04/11/13 10:28
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-2 (11.2)

Lab Sample ID: 600-71454-15

Date Collected: 04/11/13 10:29
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (0.9-2)

Lab Sample ID: 600-71454-16

Date Collected: 04/11/13 11:04
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (2-4)

Lab Sample ID: 600-71454-17

Date Collected: 04/11/13 11:05
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (4-5)

Lab Sample ID: 600-71454-18

Date Collected: 04/11/13 11:06
Matrix: Solid
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (8-10) — **Lab Sample ID: 600-71454-19**
Date Collected: 04/11/13 11:07 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-5 (11.2) — **Lab Sample ID: 600-71454-20**
Date Collected: 04/11/13 11:08 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (0.9-2) — **Lab Sample ID: 600-71454-21**
Date Collected: 04/11/13 12:00 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (2-4) — **Lab Sample ID: 600-71454-22**
Date Collected: 04/11/13 12:01 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (4-5) — **Lab Sample ID: 600-71454-23**
Date Collected: 04/11/13 12:02 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (8-10) — **Lab Sample ID: 600-71454-24**
Date Collected: 04/11/13 12:04 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (11.6) — **Lab Sample ID: 600-71454-25**
Date Collected: 04/11/13 12:05 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: DUP-10 — **Lab Sample ID: 600-71454-26**
Date Collected: 04/11/13 00:00 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-1 (6.3-7.7) — **Lab Sample ID: 600-71454-27**
Date Collected: 04/11/13 12:03 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (0.9-2) — **Lab Sample ID: 600-71454-28**
Date Collected: 04/10/13 16:00 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (2-4) — **Lab Sample ID: 600-71454-29**
Date Collected: 04/10/13 16:01 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (4-5) — **Lab Sample ID: 600-71454-30**
Date Collected: 04/10/13 16:02 — **Matrix: Solid**
Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Client Sample ID: 2013-BSB-7 (8-10)

Lab Sample ID: 600-71454-31

Date Collected: 04/10/13 16:03

Matrix: Solid

Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Client Sample ID: 2013-BSB-7 (11)

Lab Sample ID: 600-71454-32

Date Collected: 04/10/13 16:04

Matrix: Solid

Date Received: 04/12/13 08:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	104426	04/21/13 10:45	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-71454-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Page: 1/3

No. 44301

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Pastor, Behling & Wheeler	PROJECT NAME/NUMBER:
SEND REPORT TO: Will Vienne	**BILLING INFORMATION**
ADDRESS: 2201 Double Creek Dr.	BILL TO:
Suite 4004	ADDRESS:
Round Rock, TX 78664	
PHONE: 512/671-3434	PHONE:
FAX:	FAX: PO NO:

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Pb, Cd	MS/MSD						REMARKS/PRECAUTIONS.
	2013-BSB-6(0.9-2)	4/11/13	0850	Soil	4oz	Ice			X						
	2013-BSB-6(2-4)		0851												Hold
	2013-BSB-6(4-5)		0852												Hold
	2013-BSB-6(8-10)		0853												Hold
	2013-BSB-6(11.1')		0854												Hold
	2013-BSB-10(0.9-2)		0935												
	2013-BSB-10(2-4)		0936												Hold
	2013-BSB-10(4-5)		0937												Hold
	2013-BSB-10(8-10)		0938												Hold
	2013-BSB-10(11.4)		0939												Hold
	2013-BSB-2(0.9-2)		1025												

ANALYSIS/METHOD REQUEST

LAB JOB NO.

600-71454 Chain of Custody

IR GUN ID_____
INITIAL/DATE_____

SAMPLER: Roberta Russell, Patrick Ferrell

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND ☐ ROUTINE TAT (10 BUSINESS DAYS) ☒ RUSH TAT (MAY REQUIRE SURCHARGE) 24 hours

1. RELINQUISHED BY: Kevin Dwoesky	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:	4/11/13	SIGNATURE:	
PRINTED NAME/COMPANY: PBW	TIME 1505	PRINTED NAME/COMPANY: TA	TIME 1710	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	4/11/13	SIGNATURE:		SIGNATURE:	04/12/13
PRINTED NAME/COMPANY: TA	TIME 1505	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Josh Pulumbarit / TAH	TIME 0851

TAL-8222-560 (1209)

TestAmerica
~~1733 N. Padre Island Drive~~
~~Corpus Christi, TX 78408~~ Houston
Phone: 361.289.2673/Fax: 361.289.2471

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	4/11/13	225355
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr., Suite 4004	512/671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664		
Project Name and Location (State)	**Carrier/Waybill Number**	
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	1C6	Pb,Cd	Special Instructions/ Conditions of Receipt
2013-BSB-2(2-4)	4/11/13	1026				X							X	X	Hold
2013-BSB-2(4-5)		1027													Hold
2013-BSB-2(9-10)		1028													Hold
2013-BSB-2(11.2)		1029													Hold
2013-BSB-5(0.9-2)		1104													
2013-BSB-5(2-4)		1105													Hold
2013-BSB-5(4-5)		1106													Hold
2013-BSB-5(9-10)		1107													Hold
2013-BSB-5(11.2)		11.08													Hold
2013-BSB-1(0.9-2)		1200													
2013-BSB-1(2-4)		1201													Hold
2013-BSB-1(4-5)		1202													Hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/11/13	1505	1. Received By	4/11/13	1505
2. Relinquished By	4/11/13	1700	2. Received By		
3. Relinquished By			3. Received By	04/12/13	0857

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & 3 wheeler	Will Vienne	4/11/13	225357
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr., Suite 4004	512/671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICG	Pb, Cd	Special Instructions/ Conditions of Receipt
2013-BSB-1(8-10)	4/11/13	1204				X							X	X	Hold
2013-BSB-1(11.6)	↓	1205				↓							↓	↓	Hold
DUP-10	↓					↓							↓	↓	
2013-BSB-1(6.3-7.7)	↓	1203				↓							↓	↓	Hold

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	4/11/13	1505	[signature] McCone	4/11/13	1585
2.	[signature] McCone	4/11/13	1700	2. Received By	Date	Time
3.	3. Relinquished By	Date	Time	3. Received By [signature]	04/12/13	0857

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

Upton, Cathy

From: Taryn Scholz [taryn@qaallc.com]
Sent: Thursday, June 13, 2013 11:08 AM
To: Kudchadkar, Sachin
Cc: Upton, Cathy; Roberta Russell; Will Vienne
Subject: Re: Exide
Follow Up Flag: Follow up
Flag Status: Red

One other note - I haven't reviewed the May data yet and will likely need some PDS/SD data for that. Thanks so much for providing that additional info each time I've requested it.

On 6/13/2013 11:01 AM, Taryn Scholz wrote:

> Hi Sachin,
>
> We're getting close! I've listed below what I show as outstanding for this data set - in order of priority. Please let me know if I've made an error or you have any questions.
>
> Thanks so much, Taryn
>
> 1. For 600-48997-2 - This report is the one with the Jan 2012 samples split out from the original report. It did not pick up the QC for the dissolved samples (prep batch 70924 with alyt batch 71248). Can you please add in?
>
> 2. For 600-70120-1, please add As to sample 28. (A prelim report was submitted for this - and a final report for 600-70120-3 with As added to sample 18 instead of sample 28.)
>
> 3. For J71454, please change sample dates for samples 28 to 32 from 4/11/13 to 4/10/13 (and add the sample times) per the email below. This affects job IDs 600-71454-1, 600-71454-2 and 600-71454-3.
>
> 4. For J72120, please change sample dates for samples 5 to 7 from 4/22/13 to 4/23/13 per COC. There's only one job ID for this (600-72120-1)
>
> 5. For 600-70064-1, TX1006 results are reported for sample 27 but TX1005 was not requested for this sample and thus no surrogate recoveries are reported. Is it possible to get the recoveries for the extraction process for this sample? I've got nothing to go on except one LCS recovery for >C6-C35. (Note: TX1005 is reported for sample 29, which is from the same location.)
>
> 6. Please add MTBE results to the following samples, followed by job number:
>
> 2013-RMSA-6 (2.6-3.3'), 69726-1
> 2013-STB-2 (4-5') , 69726-1
> 2013-STB-6 (0.5-1.1') , 70064-1
> 2013-STB-11 (0.5-1.3') , 70064-1
> 2013-MB-1 (0-2'), 70064-1
> 2013-MB-1 (4-5') , 70064-1
> 2013-MB-2 (0-2') , 70064-1
> 2013-RMSB-4 (0-2'), 72755-1
> 2013-RMSB-4 (2-5) , 72755-1
> 2013-RMSB-4 (5-6) , 72755-1
> 2013-RMSB-5 (2-5) , 72755-1
>
> 7. For 600-74152-1, final report not yet submitted for these samples received on 6/5/13. I don't know of any other work orders needed - though I might be unaware of some hold samples that have been released.

Subject: RE: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec
Date: Fri, 12 Apr 2013 23:55:19 +0000
From: Roberta Russell <roberta.russell@pbwllc.com>
To: sachin.kudchadkar@testamericainc.com <sachin.kudchadkar@testamericainc.com>, Cheryl Cunningham <cheryl.cunningham@pbwllc.com>, Eric Pastor <eric.pastor@pbwllc.com>, Ms. Taryn Scholz <taryn@qaallc.com>, Will Vienne <will.vienne@pbwllc.com>

Sachin:

Below is the information regarding those samples :

2013-BSB-7 (0.9-2) Collected 4/10/13, 16:00 - Pb and Cd
2013-BSB-7 (2-4) Collected 4/10/13, 16:01 (Hold) - Pb and Cd
2013-BSB-7 (4-5) Collected 4/10/13, 16:02 (Hold) - Pb and Cd
2013-BSB-7 (8-10) Collected 4/10/13, 16:03 (Hold) - Pb and Cd
2013-BSB-7 (11) Collected 4/10/13, 16:04 (Hold) - Pb and Cd

Thanks,

Roberta

From: Kudchadkar, Sachin [sachin.kudchadkar@testamericainc.com]
Sent: Friday, April 12, 2013 5:07 PM
To: Cheryl Cunningham; Eric Pastor; Roberta Russell; Ms. Taryn Scholz; Will Vienne
Subject: Files from 600-71454-1 Exide Recycling Center, Frisco TX Projec

Samples 600-71454-28, -29, -30, -31, -32 were received but not listed on the chain of custody. Please advise.

Thanks

SACHIN G KUDCHADKAR

TestAmerica Houston
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 713.690.4444
www.testamericainc.com

Reference: [145656]
Attachments: 1

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

--
Taryn Scholz, President
Quality Assurance Associates (QAA, L.L.C.)
http://www.qaallc.com/
1007 Francis Drive
College Station, TX 77840
979-694-7199 (office)
979-450-2180 (cell)

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-71454-3

Login Number: 71454

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72120-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 5:52:35 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 13
QC Sample Results 14
Default Detection Limits 15
QC Association Summary 16
Lab Chronicle 17
Certification Summary 19
Chain of Custody 20
Receipt Checklists 22

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72120-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/03/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72120
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 04/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72120
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72120
Reviewer Name: TWR	Prep Batch Number(s): 600-104814- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72120-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72120-1

Comments
The report was revised on 06/18/13 to update the sample dates for samples 5-7.

Receipt
The samples were received on 4/25/2013 9:29 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72120-1	D-11 (0.5-1.0)	Solid	04/22/13 14:20	04/25/13 09:29
600-72120-2	E-11A (0.5-1.0)	Solid	04/22/13 15:25	04/25/13 09:29
600-72120-3	D-12 (0.5-1.0)	Solid	04/22/13 16:22	04/25/13 09:29
600-72120-4	E-12 (0.5-1.0)	Solid	04/22/13 17:10	04/25/13 09:29
600-72120-5	E-13 (0.5-1.0)	Solid	04/23/13 14:10	04/25/13 09:29
600-72120-6	E-14 (0.5-1.0)	Solid	04/23/13 15:10	04/25/13 09:29
600-72120-7	E-15 (0.5-1.0)	Solid	04/23/13 16:00	04/25/13 09:29

Client Sample ID: D-11 (0.5-1.0)

Lab Sample ID: 600-72120-1
Date Collected: 04/22/13 14:20
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 74.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	312		0.666	0.140	mg/Kg	☼	04/25/13 15:22	04/26/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	74		1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: E-11A (0.5-1.0)

Lab Sample ID: 600-72120-2
Date Collected: 04/22/13 15:25
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 69.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	285		0.701	0.147	mg/Kg	☼	04/25/13 15:22	04/26/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	70		1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: D-12 (0.5-1.0)

Lab Sample ID: 600-72120-3
Date Collected: 04/22/13 16:22
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 72.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29.7		0.674	0.141	mg/Kg	☼	04/25/13 15:22	04/26/13 11:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	73		1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: E-12 (0.5-1.0)

Lab Sample ID: 600-72120-4
Date Collected: 04/22/13 17:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 75.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	70.0		0.629	0.132	mg/Kg	☼	04/25/13 15:22	04/26/13 11:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	75		1.0	1.0	%			04/25/13 12:51	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Client Sample ID: E-13 (0.5-1.0)

Lab Sample ID: 600-72120-5
Date Collected: 04/23/13 14:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 80.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33.6		0.593	0.124	mg/Kg	☼	04/25/13 15:22	04/26/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	80		1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: E-14 (0.5-1.0)

Lab Sample ID: 600-72120-6
Date Collected: 04/23/13 15:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 75.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54.9		0.605	0.127	mg/Kg	☼	04/25/13 15:22	04/26/13 11:29	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	76		1.0	1.0	%			04/25/13 12:51	1

Client Sample ID: E-15 (0.5-1.0)

Lab Sample ID: 600-72120-7
Date Collected: 04/23/13 16:00
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 77.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43.6		0.631	0.132	mg/Kg	☼	04/25/13 15:22	04/26/13 11:38	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			04/25/13 12:51	1
Percent Solids	78		1.0	1.0	%			04/25/13 12:51	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-104814/1-A
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104814

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		04/25/13 15:22	04/26/13 10:49	1

Lab Sample ID: LCSSRM 600-104814/2-A
Matrix: Solid
Analysis Batch: 104835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104814

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	73.10		mg/Kg		95.1	81.3 - 118.7		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72120-6 DU
Matrix: Solid
Analysis Batch: 104765

Client Sample ID: E-14 (0.5-1.0)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	24			24		%				1	20
Percent Solids	76			76		%				0.4	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72120-1	D-11 (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-2	E-11A (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-3	D-12 (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-4	E-12 (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-5	E-13 (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-6	E-14 (0.5-1.0)	Total/NA	Solid	3050B	
600-72120-7	E-15 (0.5-1.0)	Total/NA	Solid	3050B	
LCSSRM 600-104814/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-104814/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 104835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72120-1	D-11 (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-2	E-11A (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-3	D-12 (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-4	E-12 (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-5	E-13 (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-6	E-14 (0.5-1.0)	Total/NA	Solid	6010B	104814
600-72120-7	E-15 (0.5-1.0)	Total/NA	Solid	6010B	104814
LCSSRM 600-104814/2-A	Lab Control Sample	Total/NA	Solid	6010B	104814
MB 600-104814/1-A	Method Blank	Total/NA	Solid	6010B	104814

General Chemistry

Analysis Batch: 104765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72120-1	D-11 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-2	E-11A (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-3	D-12 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-4	E-12 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-5	E-13 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-6	E-14 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-6 DU	E-14 (0.5-1.0)	Total/NA	Solid	Moisture	
600-72120-7	E-15 (0.5-1.0)	Total/NA	Solid	Moisture	

Client Sample ID: D-11 (0.5-1.0)

Lab Sample ID: 600-72120-1

Date Collected: 04/22/13 14:20
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:16	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: E-11A (0.5-1.0)

Lab Sample ID: 600-72120-2

Date Collected: 04/22/13 15:25
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: D-12 (0.5-1.0)

Lab Sample ID: 600-72120-3

Date Collected: 04/22/13 16:22
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: E-12 (0.5-1.0)

Lab Sample ID: 600-72120-4

Date Collected: 04/22/13 17:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: E-13 (0.5-1.0)

Lab Sample ID: 600-72120-5

Date Collected: 04/23/13 14:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:26	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Client Sample ID: E-14 (0.5-1.0)

Lab Sample ID: 600-72120-6

Date Collected: 04/23/13 15:10
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:29	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Client Sample ID: E-15 (0.5-1.0)

Lab Sample ID: 600-72120-7

Date Collected: 04/23/13 16:00
Matrix: Solid
Date Received: 04/25/13 09:29
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			104814	04/25/13 15:22	DCL	TAL HOU
Total/NA	Analysis	6010B		1	104835	04/26/13 11:38	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	104765	04/25/13 12:51	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72120-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAm
THE LEADER IN ENVIRON

600-72120 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
[redacted] PBW LLC	Will Vienne	4/24/13	205027
Address 2201 Double Creek Dr St 4004	**Telephone Number (Area Code)/Fax Number** 512-671-3434 will.vienne@pbwllc.com	**Lab Number**	**Page** 1 of 2
City Round Rock **State** TX **Zip Code** 78664	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Project Name and Location (State) FOP - Exide - Frisco TX	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No. Job # 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Total Metals - Pb ONLY	HOLD	Special Instructions/ Conditions of Receipt
D-11(0.5-1.0)	4/22/13	1420				X							X		Pb ONLY
E-11A(0.5-1.0)	4/22/13	1525											X		Pb ONLY
D-12(0.5-1.0)	4/22/13	1622											X		Pb ONLY
E-12(0.5-1.0)	4/22/13	1710											X		Pb ONLY
E-13(0.5-1.0)	4/23/13	1410											X		Pb ONLY
E-14(0.5-1.0)	4/23/13	1510											X		Pb ONLY
E-15(0.5-1.0)	4/23/13	1600											X		Pb ONLY
D-11(1.0-1.5)	4/22/13	1430												X	HOLD
D-11(1.5-2.0)	4/22/13	1440												X	HOLD
D-12(1.0-1.5)	4/22/13	1632												X	HOLD
D-12(1.5-2.0)	4/22/13	1647												X	HOLD
E-12(1.0-1.5)	4/22/13	1735				↓								X	HOLD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify) TRRP 13

	Relinquished By	Date	Time	Received By	Date	Time
1	[signature]	4/24/13	1500	[signature]	4/24/13	1500
2	[signature]	4/22/13	MW	2. Received By		
3	Relinquished B.			3. Received By [signature]	04/25/13	0824

Comments

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

6/18/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: PBW LLC	Project Manager: Will Vienna	Date:	Chain of Custody Number: 205023
Address: 2201 Double Creek Dr St 4004	Telephone Number (Area Code)/Fax Number: 512-671-7434 will.vienna@pbwllc.com	Lab Number:	Page 2 of 2
City: Round Rock / State: TX / Zip Code: 78664	Site Contact:	Lab Contact:	
Project Name and Location (State): FOR-Exile Frisco, TX	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: Job # 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aq-Kovs	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Total Alchls - Pb ONLY HOLD	Special Instructions/ Conditions of Receipt
E-12 (1.5-2.0)	4/22/13	1735				X							X	HOLD
E-13 (1.0-1.5)	4/23/13	1425				↓							X	HOLD
E-13 (1.5-2.0)	4/23/13	1445											X	HOLD
E-14 (1.0-1.5)	4/23/13	1520											X	HOLD
E-14 (1.5-2.0)	4/23/13	1550											X	HOLD
E-15 (1.0-1.5)	4/23/13	1625											X	HOLD
E-15 (1.5-2.0)	4/23/13	1640				↓							X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): TRRP 13

	Date	Time		Date	Time
1. Relinquished By	4/24/13	1500	1. Received By	4/24/13	1500
2. Relinquished By	4/24/13	NOON	2. Received By		
3. Relinquished By			3. Received By	04/25/13	0929

Comments

DISTRIBUTION. WHITE - Returned to Client with Report: CANARY - Stays with the Sample. PINK - Field Copy

6/18/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72120-1

Login Number: 72120

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72338-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/14/2013 4:33:19 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 17
Method Summary 18
Sample Summary 19
Client Sample Results 20
Definitions/Glossary 25
Surrogate Summary 26
QC Sample Results 27
Default Detection Limits 31
QC Association Summary 33
Lab Chronicle 35
Certification Summary 38
Chain of Custody 39
Receipt Checklists 42

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72338-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/14/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338
Reviewer Name: TWR	Prep Batch Number(s): 600-105048, 105076- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338
Reviewer Name: TWR	Prep Batch Number(s): 600-105048, 105076- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338
Reviewer Name: TWR	Prep Batch Number(s): 600-105048, 105076- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 72338-23 MS and MSD were outside control limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 72338-23 and 72338-23 MD was above acceptance limits due to the non-homogenous nature of the samples.
3	The lead percent difference between samples 72338-23 and 72338-23 SD was above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/03/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338
Reviewer Name: YX	Prep Batch Number: 600-105191-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?		X			2
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				3
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		4
		Were MS/MSD RPDs within laboratory QC limits?			X		4
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?		X			6

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/03/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338
Reviewer Name: YX	Prep Batch Number: 600-105191-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/03/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338
Reviewer Name: YX	Prep Batch Number: 600-105191-VOA

ER #[1]	DESCRIPTION
1	Surrogate (BFB) recovery for the following sample was outside control limits: 600-72338-10. Evidence of matrix interference is present; therefore, re-analysis was not performed.
2	Chloroform was detected above the MDL, but below the MQL in the method blank. The level of detection is below the recommended reporting limit and the appropriate flags have been applied to the report. Methylene chloride was detected above the MQL in the method blank. This analyte is a recognized potential laboratory contaminant and the concentration found in the sample is >10X that found in the blank.
3	The laboratory control sample (LCS) for batch 600-105191 exceeded control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.
4	The laboratory selected a sample from another group to perform as the MS/MSD.
5	All of the SDLs in sample 600-72338-10 were elevated due to the nature of the sample matrix and the high concentration of Methylene chloride.
6	The laboratory is not NELAC certified for Bromomethane. Recertification is in progress.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-1
Reviewer Name: RJV	Prep Batch Number(s): 600-105019- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-1
Reviewer Name: RJV	Prep Batch Number(s): 600-105019- TX1005

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/02/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-1
Reviewer Name: RJV	Prep Batch Number(s): 600-105019- TX1005

ER #[1]	DESCRIPTION
1	The surrogate recovery for the following sample was outside control limits: 600-72338-10. Evidence of matrix interference is present; therefore, re-extraction and re-analysis were not performed.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	All of the SDLs were elevated in sample 600-72338-10 due to the high concentration of target ranges.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 2/14/2013
Date Prepared: 2/14/2013
TALs Batches: 99613
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Chloromethane	1.66	5	3.47	10
Vinyl Chloride	0.9	5	1.06	10
Bromomethane	1.78	5	0.922	10
Chloroethane	1.4	5	0	10
1,1-Dichloroethene	1.22	5	3.23	5
trans-1,2-Dichloroethene	1.14	5	3.72	5
Acetone	1.66	5	5.94	10
Methylene Chloride	2.19	5	4.55	10
Methyl tert-butyl ether	1.83	5	3.35	5
cis-1,2-Dichloroethene	0.83	5	4.54	5
2-Butanone (MEK)	1.9	5	11.1	10
Carbon Tetrachloride	1.13	5	3.43	5
Benzene	0.63	5	4.33	5
1,2-Dichloroethane	0.9	5	3.98	5
Trichloroethene	1.4	5	4.19	5
1,1,1-Trichloroethane	0.74	5	3.43	5
1,1-Dichloroethane	0.87	5	2.79	5
1,2-Dichloropropane	0.71	5	4.58	5
1,4-Dioxane	62.07	12.5	522	500
cis-1,3-Dichloropropene	0.54	5	4.5	5
4-Methyl-2-pentanone	1.47	5	10.3	10
Toluene	1.38	5	4.35	5
trans-1,3-Dichloropropene	0.58	5	3.78	5
1,1,2-Trichloroethane	0.73	5	4.88	5
Tetrachloroethene	1.4	5	3.84	5
2-Hexanone	1.01	5	9.16	10
Chlorodibromomethane	0.94	5	3.95	5
Chlorobenzene	0.96	5	4.64	5
Ethylbenzene	1.02	5	4.51	5
o-Xylene	1.13	5	4.64	5
Xylenes (total)	1.13	5	13.8	5
Styrene	0.71	5	4.45	5
Bromoform	1.37	5	4.54	5
1,1,2,2-Tetrachloroethane	0.87	5	5.75	5
1,3,5-Trimethylbenzene	1.6	5	3.92	5
1,2,4-Trimethylbenzene	0.92	5	4.18	5
sec-Butylbenzene	0.7	5	4.1	5
n-Butylbenzene	0.58	5	4.09	5
Naphthalene	2.37	5	33.05	10

Chloroform	5.74	5	3.75	5
1,2 Dichloroethene, Total	1.9	5	8.27	5
Carbon Disulfide	0.55	5	6.4	5
Dichlorobromomethane	0.66	5	4.3	5
m-Xylene & P-Xylene	1.52	5	9.19	10

Detection Check Standard

Matrix:	Soil
Method:	TX1005
Preparation:	RV
Date Analyzed:	1/3/2013
Date Prepared:	1/3/2013
Data File:	FID-12.I\010313B.b\B0103004.D
Units:	ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
C6-C12	3.8	10	19.1384	10
>C12-C28	4.06	10	20.3253	10
Total C6-C35	7.48	20	39.4637	10

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72338-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72338-1

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72338-1	2012-BSA-2 (2-4)	Solid	04/29/13 08:35	04/30/13 09:24
600-72338-6	2013-AD-2 (0.5-2)	Solid	04/29/13 09:55	04/30/13 09:24
600-72338-9	2012-FWFS-9 (2.5-4)	Solid	04/29/13 10:45	04/30/13 09:24
600-72338-10	2012-FWFS-9 (4-5)	Solid	04/29/13 10:50	04/30/13 09:24
600-72338-11	2012-FWFS-8 (2-4)	Solid	04/29/13 11:05	04/30/13 09:24
600-72338-13	2012-FWFS-6 (2-4)	Solid	04/29/13 11:20	04/30/13 09:24
600-72338-15	2012-FWFS-4 (3-4)	Solid	04/29/13 11:35	04/30/13 09:24
600-72338-17	2013-BS2-1 (0.5-2)	Solid	04/29/13 12:35	04/30/13 09:24
600-72338-20	2013-BS5-1 (0.5-2)	Solid	04/29/13 12:45	04/30/13 09:24
600-72338-23	2013-B4R-A (0-0.5)	Solid	04/29/13 13:00	04/30/13 09:24
600-72338-27	Dup 11	Solid	04/29/13 00:00	04/30/13 09:24
600-72338-28	Dup 12	Solid	04/29/13 00:00	04/30/13 09:24

Client Sample ID: 2012-BSA-2 (2-4)

Lab Sample ID: 600-72338-1

Date Collected: 04/29/13 08:35
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 77.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.652		0.324	0.0333	mg/Kg	☼	04/30/13 13:45	05/01/13 11:08	1
Lead	123		0.649	0.136	mg/Kg	☼	04/30/13 13:45	05/01/13 11:08	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	77		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2013-AD-2 (0.5-2)

Lab Sample ID: 600-72338-6

Date Collected: 04/29/13 09:55
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 87.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	569		0.571	0.120	mg/Kg	☼	04/30/13 13:45	05/01/13 11:12	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	88		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2012-FWFS-9 (2.5-4)

Lab Sample ID: 600-72338-9

Date Collected: 04/29/13 10:45
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 72.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.624		0.319	0.0327	mg/Kg	☼	04/30/13 13:45	05/01/13 11:16	1
Lead	21.0		0.638	0.134	mg/Kg	☼	04/30/13 13:45	05/01/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	73		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2012-FWFS-9 (4-5)

Lab Sample ID: 600-72338-10

Date Collected: 04/29/13 10:50
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 73.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0483	J	0.136	0.0226	mg/Kg	☼		05/01/13 17:31	10
Benzene	0.00857	U	0.0680	0.00857	mg/Kg	☼		05/01/13 17:31	10
Chlorobromomethane	0.0242	U	0.0680	0.0242	mg/Kg	☼		05/01/13 17:31	10
Bromoform	0.0186	U	0.0680	0.0186	mg/Kg	☼		05/01/13 17:31	10
Bromomethane	0.0113	U	0.136	0.0113	mg/Kg	☼		05/01/13 17:31	10
2-Butanone (MEK)	0.0258	U	0.136	0.0258	mg/Kg	☼		05/01/13 17:31	10
Carbon disulfide	0.00748	U	0.136	0.00748	mg/Kg	☼		05/01/13 17:31	10
Carbon tetrachloride	0.0154	U	0.0680	0.0154	mg/Kg	☼		05/01/13 17:31	10
Dibromochloromethane	0.0128	U	0.0680	0.0128	mg/Kg	☼		05/01/13 17:31	10
Chlorobenzene	0.0131	U	0.0680	0.0131	mg/Kg	☼		05/01/13 17:31	10

Client Sample ID: 2012-FWFS-9 (4-5)
Date Collected: 04/29/13 10:50
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-10
Matrix: Solid
Percent Solids: 73.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.0190	U	0.136	0.0190	mg/Kg	☼		05/01/13 17:31	10
Chloroform	**0.0122**	**J b**	0.0680	0.00897	mg/Kg	☼		05/01/13 17:31	10
Chloromethane	0.0226	U	0.136	0.0226	mg/Kg	☼		05/01/13 17:31	10
1,1-Dichloroethane	0.0118	U	0.0680	0.0118	mg/Kg	☼		05/01/13 17:31	10
1,2-Dichloroethane	0.0122	U	0.0680	0.0122	mg/Kg	☼		05/01/13 17:31	10
1,1-Dichloroethene	0.0166	U	0.0680	0.0166	mg/Kg	☼		05/01/13 17:31	10
cis-1,2-Dichloroethene	0.0113	U	0.0680	0.0113	mg/Kg	☼		05/01/13 17:31	10
trans-1,2-Dichloroethene	0.0155	U	0.0680	0.0155	mg/Kg	☼		05/01/13 17:31	10
1,2-Dichloropropane	0.00965	U	0.0680	0.00965	mg/Kg	☼		05/01/13 17:31	10
cis-1,3-Dichloropropene	0.00734	U	0.0680	0.00734	mg/Kg	☼		05/01/13 17:31	10
trans-1,3-Dichloropropene	0.00789	U	0.0680	0.00789	mg/Kg	☼		05/01/13 17:31	10
Ethylbenzene	0.0139	U	0.0680	0.0139	mg/Kg	☼		05/01/13 17:31	10
2-Hexanone	0.0137	U	0.136	0.0137	mg/Kg	☼		05/01/13 17:31	10
Methylene Chloride	**0.140**	**b**	0.136	0.0298	mg/Kg	☼		05/01/13 17:31	10
4-Methyl-2-pentanone (MIBK)	0.0200	U	0.136	0.0200	mg/Kg	☼		05/01/13 17:31	10
Styrene	0.00965	U	0.0680	0.00965	mg/Kg	☼		05/01/13 17:31	10
1,1,2,2-Tetrachloroethane	0.0118	U	0.0680	0.0118	mg/Kg	☼		05/01/13 17:31	10
Tetrachloroethene	0.00965	U *	0.0680	0.00965	mg/Kg	☼		05/01/13 17:31	10
Toluene	0.0188	U	0.0680	0.0188	mg/Kg	☼		05/01/13 17:31	10
1,1,1-Trichloroethane	0.0101	U	0.0680	0.0101	mg/Kg	☼		05/01/13 17:31	10
1,1,2-Trichloroethane	0.00993	U	0.0680	0.00993	mg/Kg	☼		05/01/13 17:31	10
Trichloroethene	0.0190	U	0.0680	0.0190	mg/Kg	☼		05/01/13 17:31	10
Vinyl acetate	0.0126	U	0.0680	0.0126	mg/Kg	☼		05/01/13 17:31	10
Vinyl chloride	0.0122	U	0.136	0.0122	mg/Kg	☼		05/01/13 17:31	10
o-Xylene	0.0154	U	0.0680	0.0154	mg/Kg	☼		05/01/13 17:31	10
m-Xylene & p-Xylene	0.0207	U	0.136	0.0207	mg/Kg	☼		05/01/13 17:31	10
Xylenes, Total	0.0154	U	0.0680	0.0154	mg/Kg	☼		05/01/13 17:31	10
Bromodichloromethane	0.00897	U	0.0680	0.00897	mg/Kg	☼		05/01/13 17:31	10
1,2-Dichloroethene, Total	0.0258	U	0.136	0.0258	mg/Kg	☼		05/01/13 17:31	10
Methyl tert-butyl ether	0.0249	U	0.0680	0.0249	mg/Kg	☼		05/01/13 17:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*50 - 130*		*05/01/13 17:31*	*10*
Dibromofluoromethane	*98*		*68 - 140*		*05/01/13 17:31*	*10*
4-Bromofluorobenzene	*154*	*X*	*57 - 140*		*05/01/13 17:31*	*10*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*		*05/01/13 17:31*	*10*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**532**		68.0	25.8	mg/Kg	☼	04/30/13 09:36	05/01/13 07:50	5
>C12-C28	**4730**		68.0	27.6	mg/Kg	☼	04/30/13 09:36	05/01/13 07:50	5
>C28-C35	**228**		68.0	27.6	mg/Kg	☼	04/30/13 09:36	05/01/13 07:50	5
C6-C35	**5490**		68.0	50.9	mg/Kg	☼	04/30/13 09:36	05/01/13 07:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*358*	*X*	*70 - 130*	*04/30/13 09:36*	*05/01/13 07:50*	*5*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26**		1.0	1.0	%			05/01/13 15:36	1

Client Sample ID: 2012-FWFS-9 (4-5)

Lab Sample ID: 600-72338-10

Date Collected: 04/29/13 10:50
Matrix: Solid
Date Received: 04/30/13 09:24

General Chemistry (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		1.0	1.0	%			05/01/13 15:36	1

Client Sample ID: 2012-FWFS-8 (2-4)

Lab Sample ID: 600-72338-11

Date Collected: 04/29/13 11:05
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 72.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13.5		0.640	0.134	mg/Kg	☼	04/30/13 13:45	05/01/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	72		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2012-FWFS-6 (2-4)

Lab Sample ID: 600-72338-13

Date Collected: 04/29/13 11:20
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 74.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	13.3		0.317	0.0325	mg/Kg	☼	04/30/13 13:45	05/01/13 11:23	1
Lead	324		0.633	0.133	mg/Kg	☼	04/30/13 13:45	05/01/13 11:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	75		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2012-FWFS-4 (3-4)

Lab Sample ID: 600-72338-15

Date Collected: 04/29/13 11:35
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 71.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17.2		0.677	0.142	mg/Kg	☼	04/30/13 13:45	05/01/13 11:27	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	72		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2013-BS2-1 (0.5-2)

Lab Sample ID: 600-72338-17

Date Collected: 04/29/13 12:35
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 81.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	73.9		0.585	0.123	mg/Kg	☼	04/30/13 16:10	05/01/13 11:57	1

Client Sample ID: 2013-BS2-1 (0.5-2)

Lab Sample ID: 600-72338-17

Date Collected: 04/29/13 12:35
Matrix: Solid
Date Received: 04/30/13 09:24

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	81		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: 2013-BS5-1 (0.5-2)

Lab Sample ID: 600-72338-20

Date Collected: 04/29/13 12:45
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 86.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.85		0.574	0.120	mg/Kg	☼	04/30/13 16:10	05/01/13 12:39	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/01/13 15:36	1
Percent Solids	86		1.0	1.0	%			05/01/13 15:36	1

Client Sample ID: 2013-B4R-A (0-0.5)

Lab Sample ID: 600-72338-23

Date Collected: 04/29/13 13:00
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 73.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.181	J	0.323	0.0331	mg/Kg	☼	04/30/13 16:10	05/01/13 12:04	1
Lead	187		0.645	0.135	mg/Kg	☼	04/30/13 16:10	05/01/13 12:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	74		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: Dup 11

Lab Sample ID: 600-72338-27

Date Collected: 04/29/13 00:00
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 88.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	306		0.555	0.116	mg/Kg	☼	04/30/13 16:10	05/01/13 12:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		1.0	1.0	%			04/30/13 15:28	1
Percent Solids	88		1.0	1.0	%			04/30/13 15:28	1

Client Sample ID: Dup 12

Lab Sample ID: 600-72338-28

Date Collected: 04/29/13 00:00
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 82.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.712		0.302	0.0310	mg/Kg	☼	04/30/13 16:10	05/01/13 12:24	1
Lead	382		0.604	0.127	mg/Kg	☼	04/30/13 16:10	05/01/13 12:24	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Client Sample ID: Dup 12
Date Collected: 04/29/13 00:00
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-28
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			05/01/13 15:36	1
Percent Solids	82		1.0	1.0	%			05/01/13 15:36	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate is outside control limits
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
b	The compound was found in the blank and sample
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-72338-10	2012-FWFS-9 (4-5)	89	98	154 X	83
LCS 600-105191/4	Lab Control Sample	107	109	133	94
MB 600-105191/6	Method Blank	90	93	117	81

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH
Lab Sample ID	Client Sample ID	(70-130)
600-72338-10	2012-FWFS-9 (4-5)	358 X
LCS 600-105019/2-A	Lab Control Sample	111
MB 600-105019/1-A	Method Blank	94

Surrogate Legend

OTPH = o-Terphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-105191/6
Matrix: Solid
Analysis Batch: 105191

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/01/13 15:08	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/01/13 15:08	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/01/13 15:08	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/01/13 15:08	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/01/13 15:08	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/01/13 15:08	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/01/13 15:08	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/01/13 15:08	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/01/13 15:08	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/01/13 15:08	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/01/13 15:08	1
Chloroform	0.0009134	J	0.00500	0.000660	mg/Kg			05/01/13 15:08	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/01/13 15:08	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/13 15:08	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/01/13 15:08	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/01/13 15:08	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/01/13 15:08	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/01/13 15:08	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/01/13 15:08	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/01/13 15:08	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/01/13 15:08	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/01/13 15:08	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/01/13 15:08	1
Methylene Chloride	0.01018		0.0100	0.00219	mg/Kg			05/01/13 15:08	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/01/13 15:08	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/13 15:08	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/13 15:08	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/13 15:08	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/01/13 15:08	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/01/13 15:08	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/01/13 15:08	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/01/13 15:08	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			05/01/13 15:08	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/01/13 15:08	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/01/13 15:08	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			05/01/13 15:08	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/01/13 15:08	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/01/13 15:08	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/01/13 15:08	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/01/13 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*50 - 130*		*05/01/13 15:08*	*1*
Dibromofluoromethane	*93*		*68 - 140*		*05/01/13 15:08*	*1*
4-Bromofluorobenzene	*117*		*57 - 140*		*05/01/13 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*		*05/01/13 15:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-105191/4
Matrix: Solid
Analysis Batch: 105191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.05676		mg/Kg		57	44 - 136
Benzene	0.0500	0.04642		mg/Kg		93	66 - 128
Chlorobromomethane	0.0500	0.04568		mg/Kg		91	60 - 140
Bromoform	0.0500	0.04267		mg/Kg		85	50 - 130
Bromomethane	0.0500	0.04479		mg/Kg		90	28 - 164
2-Butanone (MEK)	0.100	0.06361		mg/Kg		64	42 - 186
Carbon disulfide	0.0500	0.04407		mg/Kg		88	53 - 176
Carbon tetrachloride	0.0500	0.04551		mg/Kg		91	63 - 132
Dibromochloromethane	0.0500	0.04352		mg/Kg		87	63 - 125
Chlorobenzene	0.0500	0.05214		mg/Kg		104	67 - 126
Chloroethane	0.0500	0.04325		mg/Kg		87	30 - 136
Chloroform	0.0500	0.04757		mg/Kg		95	67 - 126
Chloromethane	0.0500	0.04224		mg/Kg		84	21 - 153
1,1-Dichloroethane	0.0500	0.04607		mg/Kg		92	64 - 130
1,2-Dichloroethane	0.0500	0.04147		mg/Kg		83	61 - 135
1,1-Dichloroethene	0.0500	0.04388		mg/Kg		88	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04303		mg/Kg		86	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04369		mg/Kg		87	65 - 130
1,2-Dichloropropane	0.0500	0.04880		mg/Kg		98	71 - 122
cis-1,3-Dichloropropene	0.0500	0.04264		mg/Kg		85	66 - 129
trans-1,3-Dichloropropene	0.0500	0.04686		mg/Kg		94	66 - 134
Ethylbenzene	0.0500	0.04912		mg/Kg		98	64 - 127
2-Hexanone	0.100	0.06814		mg/Kg		68	52 - 142
Methylene Chloride	0.0500	0.05667		mg/Kg		113	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.06798		mg/Kg		68	52 - 146
Styrene	0.0500	0.04941		mg/Kg		99	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.04369		mg/Kg		87	59 - 134
Tetrachloroethene	0.0500	0.06891	*	mg/Kg		138	69 - 125
Toluene	0.0500	0.04879		mg/Kg		98	69 - 125
1,1,1-Trichloroethane	0.0500	0.04826		mg/Kg		97	70 - 127
1,1,2-Trichloroethane	0.0500	0.04640		mg/Kg		93	67 - 124
Trichloroethene	0.0500	0.05181		mg/Kg		104	70 - 136
Vinyl acetate	0.0500	0.03286		mg/Kg		66	54 - 136
Vinyl chloride	0.0500	0.04148		mg/Kg		83	28 - 159
o-Xylene	0.0500	0.05322		mg/Kg		106	64 - 132
m-Xylene & p-Xylene	0.100	0.1041		mg/Kg		104	65 - 128
Xylenes, Total	0.150	0.1573		mg/Kg		105	65 - 129
Bromodichloromethane	0.0500	0.04470		mg/Kg		89	68 - 121
1,2-Dichloroethene, Total	0.100	0.08672		mg/Kg		87	62 - 130
Methyl tert-butyl ether	0.0500	0.03916		mg/Kg		78	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*50 - 130*
Dibromofluoromethane	*109*		*68 - 140*
4-Bromofluorobenzene	*133*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*94*		*61 - 130*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-105019/1-A
Matrix: Solid
Analysis Batch: 105104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105019

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.80	U	10.0	3.80	mg/Kg		04/30/13 08:36	04/30/13 13:04	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		04/30/13 08:36	04/30/13 13:04	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		04/30/13 08:36	04/30/13 13:04	1
C6-C35	7.48	U	10.0	7.48	mg/Kg		04/30/13 08:36	04/30/13 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*70 - 130*	*04/30/13 08:36*	*04/30/13 13:04*	*1*

Lab Sample ID: LCS 600-105019/2-A
Matrix: Solid
Analysis Batch: 105104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	250	219.8		mg/Kg		88	75 - 125
>C12-C28	250	254.1		mg/Kg		102	75 - 125
C6-C35	500	474.0		mg/Kg		95	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*111*		*70 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105048/1-A
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105048

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/30/13 13:45	05/01/13 09:28	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/30/13 13:45	05/01/13 09:28	1

Lab Sample ID: LCSSRM 600-105048/2-A
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105048

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	104.6		mg/Kg		101.6	83.6 - 115.5
Lead	76.9	76.92		mg/Kg		100.0	81.3 - 118.7

Lab Sample ID: MB 600-105076/1-A
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105076

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		04/30/13 16:10	05/01/13 11:49	1
Lead	0.105	U	0.500	0.105	mg/Kg		04/30/13 16:10	05/01/13 11:49	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 600-105076/2-A
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105076

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	109.1		mg/Kg		105.9	83.6 - 115.5
Lead	76.9	76.70		mg/Kg		99.7	81.3 - 118.7

Lab Sample ID: 600-72338-23 MS
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: 2013-B4R-A (0-0.5)
Prep Type: Total/NA
Prep Batch: 105076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.181	J	31.9	26.37		mg/Kg	☼	82	75 - 125
Lead	187		63.9	376.3	N	mg/Kg	☼	297	75 - 125

Lab Sample ID: 600-72338-23 MSD
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: 2013-B4R-A (0-0.5)
Prep Type: Total/NA
Prep Batch: 105076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.181	J	31.7	26.40		mg/Kg	☼	83	75 - 125	0	20
Lead	187		63.5	309.5	N	mg/Kg	☼	193	75 - 125	19	20

Lab Sample ID: 600-72338-23 DU
Matrix: Solid
Analysis Batch: 105127

Client Sample ID: 2013-B4R-A (0-0.5)
Prep Type: Total/NA
Prep Batch: 105076

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.181	J	0.3886		mg/Kg	☼	73	20
Lead	187		360.4	F	mg/Kg	☼	63	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72338-13 DU
Matrix: Solid
Analysis Batch: 105072

Client Sample ID: 2012-FWFS-6 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	25		27		%		6	20
Percent Solids	75		73		%		2	20

Lab Sample ID: 600-72338-10 DU
Matrix: Solid
Analysis Batch: 105177

Client Sample ID: 2012-FWFS-9 (4-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26		26		%		3	20
Percent Solids	74		74		%		1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	MQL	MDL	Units	Method
>C12-C28	10.0	4.06	mg/Kg	TX 1005
>C28-C35	10.0	4.06	mg/Kg	TX 1005
C6-C12	10.0	3.80	mg/Kg	TX 1005
C6-C35	10.0	7.48	mg/Kg	TX 1005

Method: 6010B - Metals (ICP)

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Analysis Batch: 105191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	8260B	
LCS 600-105191/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-105191/6	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 105019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	TX_1005_S_Prep	
LCS 600-105019/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
MB 600-105019/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 105104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	TX 1005	105019
LCS 600-105019/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	105019
MB 600-105019/1-A	Method Blank	Total/NA	Solid	TX 1005	105019

Metals

Prep Batch: 105048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-1	2012-BSA-2 (2-4)	Total/NA	Solid	3050B	
600-72338-6	2013-AD-2 (0.5-2)	Total/NA	Solid	3050B	
600-72338-9	2012-FWFS-9 (2.5-4)	Total/NA	Solid	3050B	
600-72338-11	2012-FWFS-8 (2-4)	Total/NA	Solid	3050B	
600-72338-13	2012-FWFS-6 (2-4)	Total/NA	Solid	3050B	
600-72338-15	2012-FWFS-4 (3-4)	Total/NA	Solid	3050B	
LCSSRM 600-105048/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105048/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 105076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-17	2013-BS2-1 (0.5-2)	Total/NA	Solid	3050B	
600-72338-20	2013-BS5-1 (0.5-2)	Total/NA	Solid	3050B	
600-72338-23	2013-B4R-A (0-0.5)	Total/NA	Solid	3050B	
600-72338-23 DU	2013-B4R-A (0-0.5)	Total/NA	Solid	3050B	
600-72338-23 MS	2013-B4R-A (0-0.5)	Total/NA	Solid	3050B	
600-72338-23 MSD	2013-B4R-A (0-0.5)	Total/NA	Solid	3050B	
600-72338-27	Dup 11	Total/NA	Solid	3050B	
600-72338-28	Dup 12	Total/NA	Solid	3050B	
LCSSRM 600-105076/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105076/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-1	2012-BSA-2 (2-4)	Total/NA	Solid	6010B	105048
600-72338-6	2013-AD-2 (0.5-2)	Total/NA	Solid	6010B	105048

Metals (Continued)

Analysis Batch: 105127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-9	2012-FWFS-9 (2.5-4)	Total/NA	Solid	6010B	105048
600-72338-11	2012-FWFS-8 (2-4)	Total/NA	Solid	6010B	105048
600-72338-13	2012-FWFS-6 (2-4)	Total/NA	Solid	6010B	105048
600-72338-15	2012-FWFS-4 (3-4)	Total/NA	Solid	6010B	105048
600-72338-17	2013-BS2-1 (0.5-2)	Total/NA	Solid	6010B	105076
600-72338-20	2013-BS5-1 (0.5-2)	Total/NA	Solid	6010B	105076
600-72338-23	2013-B4R-A (0-0.5)	Total/NA	Solid	6010B	105076
600-72338-23 DU	2013-B4R-A (0-0.5)	Total/NA	Solid	6010B	105076
600-72338-23 MS	2013-B4R-A (0-0.5)	Total/NA	Solid	6010B	105076
600-72338-23 MSD	2013-B4R-A (0-0.5)	Total/NA	Solid	6010B	105076
600-72338-27	Dup 11	Total/NA	Solid	6010B	105076
600-72338-28	Dup 12	Total/NA	Solid	6010B	105076
LCSSRM 600-105048/2-A	Lab Control Sample	Total/NA	Solid	6010B	105048
LCSSRM 600-105076/2-A	Lab Control Sample	Total/NA	Solid	6010B	105076
MB 600-105048/1-A	Method Blank	Total/NA	Solid	6010B	105048
MB 600-105076/1-A	Method Blank	Total/NA	Solid	6010B	105076

General Chemistry

Analysis Batch: 105072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-1	2012-BSA-2 (2-4)	Total/NA	Solid	Moisture	
600-72338-6	2013-AD-2 (0.5-2)	Total/NA	Solid	Moisture	
600-72338-9	2012-FWFS-9 (2.5-4)	Total/NA	Solid	Moisture	
600-72338-11	2012-FWFS-8 (2-4)	Total/NA	Solid	Moisture	
600-72338-13	2012-FWFS-6 (2-4)	Total/NA	Solid	Moisture	
600-72338-13 DU	2012-FWFS-6 (2-4)	Total/NA	Solid	Moisture	
600-72338-15	2012-FWFS-4 (3-4)	Total/NA	Solid	Moisture	
600-72338-17	2013-BS2-1 (0.5-2)	Total/NA	Solid	Moisture	
600-72338-23	2013-B4R-A (0-0.5)	Total/NA	Solid	Moisture	
600-72338-23 MS	2013-B4R-A (0-0.5)	Total/NA	Solid	Moisture	
600-72338-23 MSD	2013-B4R-A (0-0.5)	Total/NA	Solid	Moisture	
600-72338-27	Dup 11	Total/NA	Solid	Moisture	

Analysis Batch: 105177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	Moisture	
600-72338-10 DU	2012-FWFS-9 (4-5)	Total/NA	Solid	Moisture	
600-72338-20	2013-BS5-1 (0.5-2)	Total/NA	Solid	Moisture	
600-72338-28	Dup 12	Total/NA	Solid	Moisture	

Client Sample ID: 2012-BSA-2 (2-4)

Lab Sample ID: 600-72338-1

Date Collected: 04/29/13 08:35
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:08	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2013-AD-2 (0.5-2)

Lab Sample ID: 600-72338-6

Date Collected: 04/29/13 09:55
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2012-FWFS-9 (2.5-4)

Lab Sample ID: 600-72338-9

Date Collected: 04/29/13 10:45
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:16	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2012-FWFS-9 (4-5)

Lab Sample ID: 600-72338-10

Date Collected: 04/29/13 10:50
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	105191	05/01/13 17:31	WS	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			105019	04/30/13 09:36	NV	TAL HOU
Total/NA	Analysis	TX 1005		5	105104	05/01/13 07:50	RV	TAL HOU
Total/NA	Analysis	Moisture		1	105177	05/01/13 15:36	AS	TAL HOU

Client Sample ID: 2012-FWFS-8 (2-4)

Lab Sample ID: 600-72338-11

Date Collected: 04/29/13 11:05
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2012-FWFS-6 (2-4)

Lab Sample ID: 600-72338-13

Date Collected: 04/29/13 11:20
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2012-FWFS-4 (3-4)

Lab Sample ID: 600-72338-15

Date Collected: 04/29/13 11:35
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105048	04/30/13 13:45	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:27	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2013-BS2-1 (0.5-2)

Lab Sample ID: 600-72338-17

Date Collected: 04/29/13 12:35
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105076	04/30/13 16:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 11:57	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: 2013-BS5-1 (0.5-2)

Lab Sample ID: 600-72338-20

Date Collected: 04/29/13 12:45
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105076	04/30/13 16:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 12:39	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105177	05/01/13 15:36	AS	TAL HOU

Client Sample ID: 2013-B4R-A (0-0.5)

Lab Sample ID: 600-72338-23

Date Collected: 04/29/13 13:00
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105076	04/30/13 16:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 12:04	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Client Sample ID: Dup 11

Lab Sample ID: 600-72338-27

Date Collected: 04/29/13 00:00
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105076	04/30/13 16:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 12:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105072	04/30/13 15:28	AS	TAL HOU

Client Sample ID: Dup 12

Lab Sample ID: 600-72338-28

Date Collected: 04/29/13 00:00
Date Received: 04/30/13 09:24

Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105076	04/30/13 16:10	NER	TAL HOU
Total/NA	Analysis	6010B		1	105127	05/01/13 12:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105177	05/01/13 15:36	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

TestAme — THE LEADER IN ENVIRONI

600-72338 Chain of Custody

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date: 4/29/13	Chain of Custody Number: 243471
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City: Round Rock / State: TX / Zip Code: 78731	Site Contact: R. Russell	Lab Contact	
Project Name and Location (State): Exide Frisco Recycling Center	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Cd & Pb	Pb	TPH 1005	VOCs	Special Instructions/ Conditions of Receipt
2012-BSA-2 (2-4)	4/29/13	0835				X							1	X				
2012-BSA-2 (4-5)		0840				X							1	X				Hold
E-11 (5-7)		0930				X							1	X				Hold
E-11 (7-9)		0935				X							1	X				Hold
E-11 (9-10.9)		0940				X							1	X				Hold
2013-AD-2 (0.5-2)		0955				X							1		X			
2013-AD-2 (2-4)		1000				X							1		X			Hold
2013-AD-2 (4-5)		1005				X							1		X			Hold
2012-FWFS-9 (2.5-4)		1045				X							1	X				
2012-FWFS-9 (4-5)		1050				X							2	X		X	X	Hold Cd & Pb
2012-FWFS-8 (2-4)		1105				X							1		X			
2012-FWFS-8 (4-5)	↓	1110				X							1		X			Hold

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	4-29-13	1423	1. Received By: McCrea	4/29/13	1423
2. Relinquished By: McCrea	4/29/13	1700	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr. #4004	(512)671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eagle Recycling Center, Frisco, TX			
Contract/Purchase Order/~~Quote No.~~			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Pb & Cd	Pb	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-6(2-4)	4/29/13	1120				X							X	X			
2012-FWFS-6(4-5)		1125				X							X	X			Hold
2012-FWFS-4(3-4)		1135				X							X		X		
2012-FWFS-4(4-5)		1140				X							X		X		Hold
2013-BS2-1(0.5-2)		1235				X							X		X		~~Hold~~ RR
2013-BS2-1(2-4)		1235				X							X		X		Hold
2013-BS2-1(4-5)		1240				X							X		X		Hold
2013-BS5-1(0.5-2)		1245				X							X		X		
2013-BS5-1(2-4)		1245				X							X		X		Hold
2013-BS5-1(4-5)		1250				X							X		X		Hold
2013-B4R-A(0-0.5)		1300				X							X	X		X	
2013-B4R-A(0.5-2)		1300				X							X	X			Hold

← 1 container

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will V	4-29-13	1723	[redacted]	4/29/13	1723
2.	[redacted]	4/29/13	1730			
3.					04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243474
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. #4004	(512) 671/3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide Recycling Center, Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot	Analysis: Pb 6010 Cd	Pb	Special Instructions/ Conditions of Receipt
2013-B4R-A (2-4)	4/29/13	1300				X							1	X		Hold
2013-B4R-A (4-5)	↓	1305				X							1	X		Hold
Dup 11		—				X							1		X	
Dup 12	↓	—				X							1	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will V—	4-29-13	1423	1. Received By: McCue	4/29/13	1423
2. Relinquished By: McCue	4/29/13	1720	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-1

Login Number: 72338

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72338-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/14/2013 4:48:27 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 11
Method Summary 12
Sample Summary 13
Client Sample Results 14
Definitions/Glossary 15
QC Sample Results 16
Default Detection Limits 18
QC Association Summary 19
Lab Chronicle 20
Certification Summary 21
Chain of Custody 22
Receipt Checklists 25

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72338-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/14/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105441- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105441- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/07/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-2
Reviewer Name: TWR	Prep Batch Number(s): 600-105441- ICP

ER #[1]	DESCRIPTION
1	The lead recoveries in samples 72338-7 MS and MSD were outside acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 72338-7 and 72338- 7 MD was above acceptance limits due to the non-homogenous nature of the samples.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/10/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-2
Reviewer Name: RJV	Reporting Batch Number: 600-105500-TX1006

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				1
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?			X		

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/10/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-2
Reviewer Name: RJV	Reporting Batch Number: 600-105500-TX1006

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/10/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72338-2
Reviewer Name: RJV	Reporting Batch Number: 600-105500-TX1006

ER #[1]	DESCRIPTION
1	All of the SDLs were elevated in sample 600-72338-10 due to the high concentration of target ranges.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72338-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72338-2

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-2

Method	Method Description	Protocol	Laboratory
TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72338-7	2013-AD-2 (2-4)	Solid	04/29/13 10:00	04/30/13 09:24
600-72338-10	2012-FWFS-9 (4-5)	Solid	04/29/13 10:50	04/30/13 09:24

Client Sample ID: 2013-AD-2 (2-4)

Lab Sample ID: 600-72338-7

Date Collected: 04/29/13 10:00
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 84.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**114**		0.546	0.114	mg/Kg	☼	05/06/13 10:23	05/06/13 15:08	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			05/04/13 15:03	1
Percent Solids	**84**		1.0	1.0	%			05/04/13 15:03	1

Client Sample ID: 2012-FWFS-9 (4-5)

Lab Sample ID: 600-72338-10

Date Collected: 04/29/13 10:50
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 73.5

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C6-C8 aliphatics	5.30	U	68.0	5.30	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C8-C10 aliphatics	**67.0**	**J**	68.0	5.51	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C10-C12 aliphatics	**856**		68.0	5.03	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C12-C16 aliphatics	**999**		68.0	13.6	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C16-C21 aliphatics	**1110**		68.0	16.7	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C21-C35 aliphatics	**126**		68.0	8.23	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
nC6 Aliphatics	5.58	U	68.0	5.58	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C7-C8 aromatics	**12.8**	**J**	68.0	7.14	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C8-C10 aromatics	14.4	U	68.0	14.4	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C10-C12 aromatics	**62.9**	**J**	68.0	3.40	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C12-C16 aromatics	**684**		68.0	11.2	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C16-C21 aromatics	**737**		68.0	4.35	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C21-C35 aromatics	**157**		68.0	6.12	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5
>C6-C35	**4810**		68.0	16.7	mg/Kg	☼	05/06/13 14:38	05/06/13 15:28	5

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Lab Sample ID: MB 600-105500/1-A
Matrix: Solid
Analysis Batch: 105555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105500

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C6-C8 aliphatics	0.780	U	10.0	0.780	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C8-C10 aliphatics	0.810	U	10.0	0.810	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C10-C12 aliphatics	0.740	U	10.0	0.740	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C12-C16 aliphatics	2.00	U	10.0	2.00	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C16-C21 aliphatics	2.46	U	10.0	2.46	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C21-C35 aliphatics	1.21	U	10.0	1.21	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
nC6 Aliphatics	0.820	U	10.0	0.820	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C7-C8 aromatics	1.05	U	10.0	1.05	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C8-C10 aromatics	2.12	U	10.0	2.12	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C10-C12 aromatics	0.500	U	10.0	0.500	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C12-C16 aromatics	1.64	U	10.0	1.64	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C16-C21 aromatics	0.640	U	10.0	0.640	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C21-C35 aromatics	0.900	U	10.0	0.900	mg/Kg		05/06/13 14:38	05/06/13 16:38	1
>C6-C35	2.46	U	10.0	2.46	mg/Kg		05/06/13 14:38	05/06/13 16:38	1

Lab Sample ID: LCS 600-105500/2-A
Matrix: Solid
Analysis Batch: 105555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
>C6-C35	474	478.8		mg/Kg		101	60 - 140

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105441/1-A
Matrix: Solid
Analysis Batch: 105479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105441

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		05/06/13 10:23	05/06/13 15:03	1

Lab Sample ID: LCSSRM 600-105441/2-A
Matrix: Solid
Analysis Batch: 105479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105441

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	82.13		mg/Kg		106.8	81.3 - 118.7

Lab Sample ID: 600-72338-7 MS
Matrix: Solid
Analysis Batch: 105479

Client Sample ID: 2013-AD-2 (2-4)
Prep Type: Total/NA
Prep Batch: 105441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	114		58.3	118.2	N	mg/Kg	☼	7	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72338-7 MSD
Matrix: Solid
Analysis Batch: 105479

Client Sample ID: 2013-AD-2 (2-4)
Prep Type: Total/NA
Prep Batch: 105441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	114		57.2	272.7	N	mg/Kg	☼	277	75 - 125	79	20

Lab Sample ID: 600-72338-7 DU
Matrix: Solid
Analysis Batch: 105479

Client Sample ID: 2013-AD-2 (2-4)
Prep Type: Total/NA
Prep Batch: 105441

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	114			148.4	F	mg/Kg	☼			26	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-2

Method: TX 1006 - Texas - Total Petroleum Hydrocarbon Fractions (GC)

Analyte	MQL	MDL	Units	Method
>C10-C12 aliphatics	10.0	0.740	mg/Kg	TX 1006
>C10-C12 aromatics	10.0	0.500	mg/Kg	TX 1006
>C12-C16 aliphatics	10.0	2.00	mg/Kg	TX 1006
>C12-C16 aromatics	10.0	1.64	mg/Kg	TX 1006
>C16-C21 aliphatics	10.0	2.46	mg/Kg	TX 1006
>C16-C21 aromatics	10.0	0.640	mg/Kg	TX 1006
>C21-C35 aliphatics	10.0	1.21	mg/Kg	TX 1006
>C21-C35 aromatics	10.0	0.900	mg/Kg	TX 1006
>C6-C35	10.0	2.46	mg/Kg	TX 1006
>C6-C8 aliphatics	10.0	0.780	mg/Kg	TX 1006
>C7-C8 aromatics	10.0	1.05	mg/Kg	TX 1006
>C8-C10 aliphatics	10.0	0.810	mg/Kg	TX 1006
>C8-C10 aromatics	10.0	2.12	mg/Kg	TX 1006
nC6 Aliphatics	10.0	0.820	mg/Kg	TX 1006

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC Semi VOA

Prep Batch: 105019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	TX 1006 Frac	

Prep Batch: 105500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-105500/2-A	Lab Control Sample	Total/NA	Solid	TX 1006 Frac	
MB 600-105500/1-A	Method Blank	Total/NA	Solid	TX 1006 Frac	

Analysis Batch: 105555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-10	2012-FWFS-9 (4-5)	Total/NA	Solid	TX 1006	105019
LCS 600-105500/2-A	Lab Control Sample	Total/NA	Solid	TX 1006	105500
MB 600-105500/1-A	Method Blank	Total/NA	Solid	TX 1006	105500

Metals

Prep Batch: 105441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-7	2013-AD-2 (2-4)	Total/NA	Solid	3050B	
600-72338-7 DU	2013-AD-2 (2-4)	Total/NA	Solid	3050B	
600-72338-7 MS	2013-AD-2 (2-4)	Total/NA	Solid	3050B	
600-72338-7 MSD	2013-AD-2 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-105441/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105441/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-7	2013-AD-2 (2-4)	Total/NA	Solid	6010B	105441
600-72338-7 DU	2013-AD-2 (2-4)	Total/NA	Solid	6010B	105441
600-72338-7 MS	2013-AD-2 (2-4)	Total/NA	Solid	6010B	105441
600-72338-7 MSD	2013-AD-2 (2-4)	Total/NA	Solid	6010B	105441
LCSSRM 600-105441/2-A	Lab Control Sample	Total/NA	Solid	6010B	105441
MB 600-105441/1-A	Method Blank	Total/NA	Solid	6010B	105441

General Chemistry

Analysis Batch: 105401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-7	2013-AD-2 (2-4)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-AD-2 (2-4)

Lab Sample ID: 600-72338-7

Date Collected: 04/29/13 10:00
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105441	05/06/13 10:23	NER	TAL HOU
Total/NA	Analysis	6010B		1	105479	05/06/13 15:08	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105401	05/04/13 15:03	MB	TAL HOU

Client Sample ID: 2012-FWFS-9 (4-5)

Lab Sample ID: 600-72338-10

Date Collected: 04/29/13 10:50
Matrix: Solid
Date Received: 04/30/13 09:24
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX 1006 Frac			105019	05/06/13 14:38	NV	TAL HOU
Total/NA	Analysis	TX 1006		5	105555	05/06/13 15:28	RV	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAme

THE LEADER IN ENVIRONI

600-72338 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	4/29/13	243471
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
2201 Double Creek Dr. #4004			
City Round Rock	**State** TX	**Zip Code** 78731	**Site Contact** R. Russell	**Lab Contact**
Project Name and Location (State) Exide Frisco Recycling Center	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No. 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Cd & Pb	Pb	TPH 1005	VOCs	Special Instructions/ Conditions of Receipt
2012-BSA-2 (2-4)	4/29/13	0835				X							1	X				
2012-BSA-2 (4-5)		0840				X							1	X				Hold
E-11 (5-7)		0930				X							1	X				Hold
E-11 (7-9)		0935				X							1	X				Hold
E-11 (9-10.9)		0940				X							1	X				Hold
2013-AD-2 (0.5-2)		0955				X							1		X			
2013-AD-2 (2-4)		1000				X							1		X			Hold
2013-AD-2 (4-5)		1005				X							1		X			Hold
2012-FWFS-9 (2.5-4)		1045				X							1	X				
2012-FWFS-9 (4-5)		1050				X							2	X		XX		Hold Cd & Pb
2012-FWFS-8 (2-4)		1105				X							1		X			
2012-FWFS-8 (4-5)	↓	1110				X							1		X			Hold

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	4-29-13	1423	1. Received By: McCrea	4/29/13	1423
2. Relinquished By: McCrea	4/29/13	1700	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr. #4004	(512)671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eagle Recycling Center, Frisco, TX			
Contract/Purchase Order/~~Quote No.~~			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Pb/Cd	Pb	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-6(2-4)	4/29/13	1120				X							X	X			
2012-FWFS-6(4-5)		1125				X							X	X			Hold
2012-FWFS-4(3-4)		1135				X							X		X		
2012-FWFS-4(4-5)		1140				X							X		X		Hold
2013-BS2-1(0.5-2)		1235				X							X		X		~~Hold~~ RR
2013-BS2-1(2-4)		1235				X							X		X		Hold
2013-BS2-1(4-5)		1240				X							X		X		Hold
2013-BS5-1(0.5-2)		1245				X							X		X		
2013-BS5-1(2-4)		1245				X							X		X		Hold
2013-BS5-1(4-5)		1250				X							X		X		Hold
2013-B4R-A(0-0.5)		1300				X							X	X		X	
2013-B4R-A(0.5-2)		1300				X							X	X			Hold

← 1 container

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will V	4-29-13	1723		4/30/13	KMB
2.		4/30/13	1730			
3.					04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243474
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. #4004	(512) 671/3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide Recycling Center, Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Pb 6010 Cd	Pb	Special Instructions/ Conditions of Receipt
2013-B4R-A (2-4)	4/29/13	1300				X							1	X		Hold
2013-B4R-A (4-5)	↓	1305				X							1	X		Hold
Dup 11		—				X							1		X	
Dup 12	↓	—				X							1	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will V—	4-29-13	1423	1. Received By: McCune	4/29/13	1423
2. Relinquished By: McCune	4/29/13	1720	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

5/14/2013

Page 24 of 25

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-2

Login Number: 72338

List Number: 1

Creator: Pulumbarit, Josh

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72338-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/14/2013 4:59:42 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72338-3

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/14/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/14/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105735- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/14/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105735- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/14/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-3
Reviewer Name: TWR	Prep Batch Number(s): 600-105735- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72338-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72338-3

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72338-3	E-11 (5-7)	Solid	04/29/13 09:30	04/30/13 09:24

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Client Sample ID: E-11 (5-7)
Date Collected: 04/29/13 09:30
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-3
Matrix: Solid
Percent Solids: 84.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.385		0.283	0.0291	mg/Kg	☼	05/09/13 08:22	05/09/13 13:40	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	85		1.0	1.0	%			05/08/13 12:53	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105735/1-A
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105735

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/09/13 08:22	05/09/13 13:35	1

Lab Sample ID: LCSSRM 600-105735/2-A
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105735

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	103.1		mg/Kg		100.1	83.6 - 115.5		

Lab Sample ID: 600-72338-3 MS
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: E-11 (5-7)
Prep Type: Total/NA
Prep Batch: 105735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	0.385		27.5	25.89		mg/Kg	☼	93	75 - 125		

Lab Sample ID: 600-72338-3 MSD
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: E-11 (5-7)
Prep Type: Total/NA
Prep Batch: 105735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.385		28.3	26.89		mg/Kg	☼	94	75 - 125	4	20

Lab Sample ID: 600-72338-3 DU
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: E-11 (5-7)
Prep Type: Total/NA
Prep Batch: 105735

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.385		0.3209		mg/Kg	☼	18	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Metals

Prep Batch: 105735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-3	E-11 (5-7)	Total/NA	Solid	3050B	
600-72338-3 DU	E-11 (5-7)	Total/NA	Solid	3050B	
600-72338-3 MS	E-11 (5-7)	Total/NA	Solid	3050B	
600-72338-3 MSD	E-11 (5-7)	Total/NA	Solid	3050B	
LCSSRM 600-105735/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105735/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-3	E-11 (5-7)	Total/NA	Solid	6010B	105735
600-72338-3 DU	E-11 (5-7)	Total/NA	Solid	6010B	105735
600-72338-3 MS	E-11 (5-7)	Total/NA	Solid	6010B	105735
600-72338-3 MSD	E-11 (5-7)	Total/NA	Solid	6010B	105735
LCSSRM 600-105735/2-A	Lab Control Sample	Total/NA	Solid	6010B	105735
MB 600-105735/1-A	Method Blank	Total/NA	Solid	6010B	105735

General Chemistry

Analysis Batch: 105689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-3	E-11 (5-7)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Client Sample ID: E-11 (5-7)
Date Collected: 04/29/13 09:30
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-3
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105735	05/09/13 08:22	NER	TAL HOU
Total/NA	Analysis	6010B		1	105763	05/09/13 13:40	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-3

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAme

THE LEADER IN ENVIRONI

600-72338 Chain of Custody

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date: 4/29/13	Chain of Custody Number: 243471
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City: Round Rock / State: TX / Zip Code: 78731	Site Contact: R. Russell	Lab Contact	
Project Name and Location (State): Exide Frisco Recycling Center	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Cd & Pb	Pb	TPH 1005	VOCs	Special Instructions/ Conditions of Receipt
2012-BSA-2 (2-4)	4/29/13	0835				X							1	X				
2012-BSA-2 (4-5)		0840				X							1	X				Hold
E-11 (5-7)		0930				X							1	X				Hold
E-11 (7-9)		0935				X							1	X				Hold
E-11 (9-10.9)		0940				X							1	X				Hold
2013-AD-2 (0.5-2)		0955				X							1		X			
2013-AD-2 (2-4)		1000				X							1		X			Hold
2013-AD-2 (4-5)		1005				X							1		X			Hold
2012-FWFS-9 (2.5-4)		1045				X							1	X				
2012-FWFS-9 (4-5)		1050				X							2	X		XX		Hold Cd & Pb
2012-FWFS-8 (2-4)		1105				X							1		X			
2012-FWFS-8 (4-5)	↓	1110				X							1		X			Hold

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	4-29-13	1423	1. Received By: McCrea	4/29/13	1423
2. Relinquished By: McCrea	4/29/13	1700	2. Received By:	Date	Time
3. Relinquished By:	Date	Time	3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Page 18 of 21

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr. #4004	(512)671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eagle Recycling Center, Frisco, TX			
Contract/Purchase Order/~~Quote No.~~			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Pb & Cd	Pb	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-6 (2-4)	4/29/13	1120				X							X	X			
2012-FWFS-6 (4-5)		1125				X							X	X			Hold
2012-FWFS-4 (3-4)		1135				X							X		X		
2012-FWFS-4 (4-5)		1140				X							X		X		Hold
2013-BS2-1 (0.5-2)		1235				X							X		X		~~Hold~~ RR
2013-BS2-1 (2-4)		1235				X							X		X		Hold
2013-BS2-1 (4-5)		1240				X							X		X		Hold
2013-BS5-1 (0.5-2)		1245				X							X		X		
2013-BS5-1 (2-4)		1245				X							X		X		Hold
2013-BS5-1 (4-5)		1250				X							X		X		Hold
2013-B4R-A (0-0.5)		1300				X							X	X		X	
2013-B4R-A (0.5-2)		1300				X							X	X			Hold

← 1 container

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will V	4-29-13	1723	[signature]	4/29/13	1723
2.	[signature]	4/29/13	1730			
3.				[signature]	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler, LLC	Project Manager: Will Vienne	Date: 4/29/13	Chain of Custody Number: 243474
Address: 2201 Double Creek Dr. #1004	Telephone Number (Area Code)/Fax Number: (512) 671/3434	Lab Number:	Page 3 of 3
City: Round Rock / State: TX / Zip Code: 78664	Site Contact: R. Russell	Lab Contact:	
Project Name and Location (State): Exide Recycling Center, Frisco, TX	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot	Pb & Cd	Pb	Special Instructions/ Conditions of Receipt
2013-B4R-A (2-4)	4/29/13	1300				X							1	X		Hold
2013-B4R-A (4-5)	↓	1305				X							1	X		Hold
Dup 11		—				X							1		X	
Dup 12		—				X							1	X		

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: Will V—	Date: 4-29-13	Time: 1423	1. Received By: McCune	Date: 4/29/13	Time: 1423
2. Relinquished By: McCune	Date: 4/29/13	Time: 1700	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date: 04/30/13	Time: 0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/14/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-3

Login Number: 72338

List Number: 1

Creator: Pulumbarit, Josh

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72338-4
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/20/2013 2:51:10 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72338-4

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/20/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-4
Reviewer Name: TWR	Prep Batch Number(s): 600-105993- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-4
Reviewer Name: TWR	Prep Batch Number(s): 600-105993- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	1
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-4
Reviewer Name: TWR	Prep Batch Number(s): 600-105993-ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72338-4

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72338-4

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72338-4	E-11 (7-9)	Solid	04/29/13 09:35	04/30/13 09:24

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Client Sample ID: E-11 (7-9)
Date Collected: 04/29/13 09:35
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-4
Matrix: Solid
Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.485		0.285	0.0293	mg/Kg	☼	05/13/13 13:37	05/13/13 17:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			05/13/13 14:57	1
Percent Solids	84		1.0	1.0	%			05/13/13 14:57	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105993/1-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105993

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/13/13 13:37	05/13/13 17:47	1

Lab Sample ID: LCSSRM 600-105993/2-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105993

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium			103	105.8		mg/Kg		102.7	83.6 - 115.5		

Lab Sample ID: 600-72338-4 MS
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: E-11 (7-9)
Prep Type: Total/NA
Prep Batch: 105993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cadmium	0.485		28.5	29.45		mg/Kg	☼	102	75 - 125		

Lab Sample ID: 600-72338-4 MSD
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: E-11 (7-9)
Prep Type: Total/NA
Prep Batch: 105993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.485		27.7	27.60		mg/Kg	☼	98	75 - 125	6	20

Lab Sample ID: 600-72338-4 DU
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: E-11 (7-9)
Prep Type: Total/NA
Prep Batch: 105993

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.485		0.6158		mg/Kg	☼	24	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Metals

Prep Batch: 105993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-4	E-11 (7-9)	Total/NA	Solid	3050B	
600-72338-4 DU	E-11 (7-9)	Total/NA	Solid	3050B	
600-72338-4 MS	E-11 (7-9)	Total/NA	Solid	3050B	
600-72338-4 MSD	E-11 (7-9)	Total/NA	Solid	3050B	
LCSSRM 600-105993/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105993/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 106003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-4	E-11 (7-9)	Total/NA	Solid	6010B	105993
600-72338-4 DU	E-11 (7-9)	Total/NA	Solid	6010B	105993
600-72338-4 MS	E-11 (7-9)	Total/NA	Solid	6010B	105993
600-72338-4 MSD	E-11 (7-9)	Total/NA	Solid	6010B	105993
LCSSRM 600-105993/2-A	Lab Control Sample	Total/NA	Solid	6010B	105993
MB 600-105993/1-A	Method Blank	Total/NA	Solid	6010B	105993

General Chemistry

Analysis Batch: 106004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-4	E-11 (7-9)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Client Sample ID: E-11 (7-9)
Date Collected: 04/29/13 09:35
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-4
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105993	05/13/13 13:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 17:54	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106004	05/13/13 14:57	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-4

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAme

THE LEADER IN ENVIRONI

600-72338 Chain of Custody

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date: 4/29/13	Chain of Custody Number: 243471
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City: Round Rock / State: TX / Zip Code: 78731	Site Contact: R. Russell	Lab Contact	
Project Name and Location (State): Exide Frisco Recycling Center	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Cd & Pb	Pb	TPH 1005	VOCs	Special Instructions/ Conditions of Receipt
2012-BSA-2 (2-4)	4/29/13	0835				X							1	X				
2012-BSA-2 (4-5)		0840				X							1	X				Hold
E-11 (5-7)		0930				X							1	X				Hold
E-11 (7-9)		0935				X							1	X				Hold
E-11 (9-10.9)		0940				X							1	X				Hold
2013-AD-2 (0.5-2)		0955				X							1		X			
2013-AD-2 (2-4)		1000				X							1		X			Hold
2013-AD-2 (4-5)		1005				X							1		X			Hold
2012-FWFS-9 (2.5-4)		1045				X							1	X				
2012-FWFS-9 (4-5)		1050				X							2	X		XX		Hold Cd & Pb
2012-FWFS-8 (2-4)		1105				X							1		X			
2012-FWFS-8 (4-5)	↓	1110				X							1		X			Hold

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	4-29-13	1423	1. Received By: McCrea	4/29/13	1423
2. Relinquished By: McCrea	4/29/13	1700	2. Received By:	Date	Time
3. Relinquished By:	Date	Time	3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/20/2013

Page 18 of 21

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr. #4004	(512)671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eyrde Recycling Center, Frisco, TX			
Contract/Purchase Order/~~Quote No.~~			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Pb, Cd	Pb	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-6(2-4)	4/29/13	1120				X							X	X			
2012-FWFS-6(4-5)		1125				X							X	X			Hold
2012-FWFS-4(3-4)		1135				X							X		X		
2012-FWFS-4(4-5)		1140				X							X		X		Hold
2013-BS2-1(0.5-2)		1235				X							X		X		~~Hold~~ RR
2013-BS2-1(2-4)		1235				X							X		X		Hold
2013-BS2-1(4-5)		1240				X							X		X		Hold
2013-BS5-1(0.5-2)		1245				X							X		X		
2013-BS5-1(2-4)		1245				X							X		X		Hold
2013-BS5-1(4-5)		1250				X							X		X		Hold
2013-B4R-A(0-0.5)		1300				X							X	X		X	
2013-B4R-A(0.5-2)		1300				X							X	X			Hold

← 1 container

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will V	4-29-13	1723		4/30/13	KAB
2.		4/30/13	1730			
3.					04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/20/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243474
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. #4004	(512) 671/3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide Recycling Center, Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Pb 6010 Cd	Pb	Special Instructions/ Conditions of Receipt
2013-B4R-A (2-4)	4/29/13	1300				X							1	X		Hold
2013-B4R-A (4-5)	↓	1305				X							1	X		Hold
Dup 11		—				X							1		X	
Dup 12	↓	—				X							1	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will V—	4-29-13	1423	1. Received By: McCune	4/29/13	1423
2. Relinquished By: McCune	4/29/13	1720	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

5/20/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-4

Login Number: 72338

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72338-5
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/21/2013 11:06:43 AM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72338-5

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/21/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-5
Reviewer Name: TWR	Prep Batch Number(s): 600-106288- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-5
Reviewer Name: TWR	Prep Batch Number(s): 600-106288- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72338-5
Reviewer Name: TWR	Prep Batch Number(s): 600-106288- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72338-5

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72338-5

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72338-5	E-11 (9-10.9)	Solid	04/29/13 09:40	04/30/13 09:24

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Client Sample ID: E-11 (9-10.9)
Date Collected: 04/29/13 09:40
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-5
Matrix: Solid
Percent Solids: 82.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.367		0.296	0.0303	mg/Kg	☼	05/16/13 15:39	05/17/13 11:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			05/16/13 15:19	1
Percent Solids	83		1.0	1.0	%			05/16/13 15:19	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-106288/1-A
Matrix: Solid
Analysis Batch: 106316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106288

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/16/13 15:39	05/17/13 11:26	1

Lab Sample ID: LCSSRM 600-106288/2-A
Matrix: Solid
Analysis Batch: 106316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106288

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	105.2		mg/Kg		102.1	83.6 - 115.5

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 106288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-5	E-11 (9-10.9)	Total/NA	Solid	3050B	
LCSSRM 600-106288/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-106288/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 106316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-5	E-11 (9-10.9)	Total/NA	Solid	6010B	106288
LCSSRM 600-106288/2-A	Lab Control Sample	Total/NA	Solid	6010B	106288
MB 600-106288/1-A	Method Blank	Total/NA	Solid	6010B	106288

General Chemistry

Analysis Batch: 106285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72338-5	E-11 (9-10.9)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Client Sample ID: E-11 (9-10.9)
Date Collected: 04/29/13 09:40
Date Received: 04/30/13 09:24

Lab Sample ID: 600-72338-5
Matrix: Solid
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106288	05/16/13 15:39	NER	TAL HOU
Total/NA	Analysis	6010B		1	106316	05/17/13 11:30	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106285	05/16/13 15:19	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72338-5

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAme

THE LEADER IN ENVIRONI

600-72338 Chain of Custody

5/21/2013

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date: 4/29/13	Chain of Custody Number: 243471
Address: 2201 Double Creek Dr. #4004	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 3
City: Round Rock / State: TX / Zip Code: 78731	Site Contact: R. Russell	Lab Contact	
Project Name and Location (State): Exide Frisco Recycling Center	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Cd & Pb	Pb	TPH 1005	VOCs	Special Instructions/ Conditions of Receipt
2012-BSA-2 (2-4)	4/29/13	0835				X							1	X				
2012-BSA-2 (4-5)		0840				X							1	X				Hold
E-11 (5-7)		0930				X							1	X				Hold
E-11 (7-9)		0935				X							1	X				Hold
E-11 (9-10.9)		0940				X							1	X				Hold
2013-AD-2 (0.5-2)		0955				X							1		X			
2013-AD-2 (2-4)		1000				X							1		X			Hold
2013-AD-2 (4-5)		1005				X							1		X			Hold
2012-FWFS-9 (2.5-4)		1045				X							1	X				
2012-FWFS-9 (4-5)		1050				X							2	X		XX		Hold Cd & Pb
2012-FWFS-8 (2-4)		1105				X							1		X			
2012-FWFS-8 (4-5)	↓	1110				X							1		X			Hold

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will Vienne	4-29-13	1423	1. Received By: McCrea	4/29/13	1423
2. Relinquished By: McCrea	4/29/13	1700	2. Received By:	Date	Time
3. Relinquished By:	Date	Time	3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
2201 Double Creek Dr. #4004	(512)671-3434		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eagle Recycling Center, Frisco, TX			
Contract/Purchase Order/~~Quote No.~~			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Ice	Analysis: Pb & Cd	Pb	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-6(2-4)	4/29/13	1120				X							X	X			
2012-FWFS-6(4-5)		1125				X							X	X			Hold
2012-FWFS-4(3-4)		1135				X							X		X		
2012-FWFS-4(4-5)		1140				X							X		X		Hold
2013-BS2-1(0.5-2)		1235				X							X		X		~~Hold~~ RR
2013-BS2-1(2-4)		1235				X							X		X		Hold
2013-BS2-1(4-5)		1240				X							X		X		Hold
2013-BS5-1(0.5-2)		1245				X							X		X		
2013-BS5-1(2-4)		1245				X							X		X		Hold
2013-BS5-1(4-5)		1250				X							X		X		Hold
2013-B4R-A(0-0.5)		1300				X							X	X		X	
2013-B4R-A(0.5-2)		1300				X							X	X			Hold

← 1 container

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Will V	4-29-13	1723	[illegible]	4/29/13	1723
2.	[illegible]	4/29/13	1730			
3.					04/30/13	0924

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/21/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler, LLC	Will Vienne	4/29/13	243474
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
2201 Double Creek Dr. #4004	(512) 671/3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Exide Recycling Center, Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tot.	Analysis: Pb 6010 Cd	Pb	Special Instructions/ Conditions of Receipt
2013-B4R-A (2-4)	4/29/13	1300				X							1	X		Hold
2013-B4R-A (4-5)	↓	1305				X							1	X		Hold
Dup 11		—				X							1		X	
Dup 12	↓	—				X							1	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Will V—	4-29-13	1423	1. Received By: McCue	4/29/13	1423
2. Relinquished By: McCue	4/29/13	1720	2. Received By:		
3. Relinquished By:			3. Received By:	04/30/13	0924

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

5/21/2013

Page 20 of 21

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72338-5

Login Number: 72338

List Number: 1

Creator: Pulumbarit, Josh

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

SITE:	Exide Former Operating Plant Frisco, Texas	
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW) Round Rock, Texas	
EVENT:	APAR Soil Sampling – May 2013 and June 2013	
INTENDED USE:	Affected Property Assessment Report (APAR)	
LABORATORY:	TestAmerica – Houston, TX TLAP Certification T104704223 Work Orders: 600-72755-1, 600-72755-2, 600-72755-3, 600-72840-1, 600-72840-2, 600-72906-1, 600-73243-1, 600-73545-1, 600-74152-1	
TESTS/ METHODS:	Total Metals (As, Cd, Pb, and/or Se)	SW846 3050B/6010B
	Total RCRA Metals (Ag, As, Ba, Cd, Cr, Pb, Se and Hg)	SW846 3050B/6010B and 7471A
	Volatile Organic Compounds (VOC)	SW846 5030B/8260B (40 analytes)
	Semivolatile Organic Compounds (SVOC)	SW846 3550B/8270C LL (67 analytes)
	pH	SW846 9045C
SAMPLES:	73 soil samples, 7 field duplicates, 2 field MS/MSD pairs, 9 laboratory MS/MSD pairs, 1 equipment rinsate blank (see Table 1 for a complete listing)	

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS).

QAA completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field QC Blanks
- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory and Field Duplicate Precision

Additionally, QAA used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)
- Instrument Tuning, Calibration, and Performance

- Internal Standards

Criteria used for the data usability review are as follows:

- Inorganics: 70-130% spike recovery (and not less than 30% or data is rejected) and ±MQL difference or 30% RPD (for laboratory duplicates) as recommended in TRRP-13
- Organics: 60-140% spike recovery (and not less than 10% or data is rejected) and ±MQL difference or 40% RPD (for laboratory duplicates) as recommended in TRRP-13
- Soil Samples: ± 3x MQL difference (if either result is less than 5x MQL) or 50% RPD (for field duplicates) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier (DQ) and bias code to the results for the affected samples in accordance with TRRP-13. A list of all qualified results and definitions of the qualifier and bias codes are given in Table 2.

GLOSSARY OF TERMS

The following definitions apply for terms related to analyte reporting limits:

MDL (Method Detection Limit) – the minimum concentration of an analyte that the laboratory can measure and report with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by the laboratory for each analyte in a given reagent matrix (water or soil) generally using the procedures specified in 40 CFR Part 136, Appendix B. It is a measure of the concentration an instrument can detect or 'see' in a given reagent matrix. TRRP-13 requires that the laboratory routinely check the MDL for reasonableness.

SDL (Sample Detection Limit) – the MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and taking into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can detect or 'see' in a given sample. For TRRP, non-detects are reported using the SDL. This term was originally called the SQL (Sample Quantitation Limit) before the TRRP rule revisions effective March 19, 2007.

Unadjusted MQL (Method Quantitation Limit) – the lowest non-zero concentration standard in the laboratory's initial calibration curve calculated using the normal aliquot sizes and final volumes prescribed in the analytical method. The unadjusted MQL is reported by the laboratory for each analyte in a given matrix (water or soil). It is a measure of the concentration an instrument can accurately measure in a typical sample. Per TRRP, the Unadjusted MQLs should be below the Levels of Required Performance (LORPs) for purposes of assessment as well as demonstration of conformance with critical Protective Concentration Levels (PCLs).

MQL – the unadjusted MQL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method, and takes into account sample characteristics, sample preparation, and analytical adjustments including dry-weight adjustments. It is a measure of the concentration an instrument can accurately measure in a given sample. Analytes with concentrations above the SDL but below the MQL, though present in the sample, may not be accurately measured and are thus flagged as estimated (J).

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, methods and parameters of analysis requested on the chain-of-custody forms except for Bromomethane by SW-846 8260B, which is reported for ten soil samples. The laboratory's recertification is in progress

for this analyte pending TCEQ action. The results are validated and reported as part of a suite of analytes for the method. Per TRRP-13, the reviewer qualified all results for Bromomethane as not accredited - single analyte in a multi-analyte suite (X8). A copy of the applicable pages of the laboratory's National Environmental Laboratory Accreditation Program (NELAP) certificate valid during the period in which the laboratory generated the data in this report is included in Attachment 1 to this DUS.

USABILITY SUMMARY

1. Usability of Unqualified Non-Detects – Non-detects are reported at the sample detection limit (SDL) as required per TRRP. Additionally, according to the LRC, an MDL study was performed for each analyte and the MDLs were checked for reasonableness for each applicable analyte. The levels of required performance (LORPs) have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2 or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. As needed per TRRP, the Unadjusted MQL stated by the laboratory is at or below the LORP for each applicable analyte, and thus the analytical methods are appropriate and the results can be used to demonstrate conformance with the criteria, except for two of the 67 SVOC analytes. These analytes (Benzidine and N-Nitrosodimethylamine) have particularly low LORPs. The laboratory MQLs are considered the lowest attainable using standard methodology (SW-846 8270C LL) without special analytical techniques and are considered adequate for this phase of the site investigation.

2. Usability of Qualified Data – There are no major QC deficiencies, and thus all data is usable as qualified for the intended use. As shown in Table 2, the reviewer qualified some non-detects as estimated (UJ) or biased low (UJL) and some detects as estimated (J) due to minor QC deficiencies. Results that are biased low can be used; however, the reported concentration for detects or the reported SDL for non-detects may be low. Results that are estimated may be either low or high. The reviewer also applied a U-qualifier to the nine detects for Chloroform due to detection of this analyte in the associated laboratory blank. In each case, the analyte should be considered not detected at or above the reported concentration. Additionally, all results for Bromomethane in these solid samples are qualified as not accredited - single analyte in a multi-analyte suite (X8). QC results are reported for Bromomethane and meet the requirements for all of the blanks and spikes plus the laboratory is accredited for the remaining 39 SW-846 8260B analytes in this matrix, analyzed by this method. The Bromomethane results are validated and reported as part of a suite of analytes for the method. Eight (8) results from location MW-31 are qualified as not selected for use (NS). This boring was re-sampled when the results from the first sampling indicated a possible mis-labeling of the sample intervals. The reviewer selected the second set of results for use based on the results for the investigative samples, observations in the field and at the laboratory, and the results for the field duplicates collected at MW-31. Finally, results with a laboratory J-flag (i.e., at a concentration between the SDL and MQL) should be considered estimates. The actual value is not expected to exceed the sample MQL.

QAA Reviewer:	Taryn G. Scholz	6/24/13
	(Name)	(Date)

QC PARAMETER	QC OUTCOME
Data Completeness	The laboratory data packages contain all necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contain all sample results in acceptable format. Revisions were required for work orders 600-72755-1 and 600-72906-1 to add the analyte MTBE for the VOC analyses.
Chain-of-Custody	Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. Note that the custody record for 600-74152-1 has a time gap for the first transfer. This is because the sampler placed the sample container (with a custody seal) in a secure office and it was stored there overnight. Additionally, the information on the custody records is complete and agrees with that in the field notes and laboratory reports, except as follows: • For laboratory job number J72906, one sample (Dup 18) was received that is not listed on the custody record. The laboratory logged in the sample with the receipt date (5/10/13). The actual collection date is 5/9/13 per the field notes. The sample is a field QC sample and this has no effect on the holding time pass/fail status and thus no further action was taken. • For laboratory job number J72906, the laboratory logged in sample 2013-RMSB-7 (6.5) with the incorrect time (16:55 instead of 16:59 as shown on the custody record). The sample date is correct and this has no effect on the holding time pass/fail status and thus no further action was taken. The reviewer also confirmed that all tests are reported as requested on the custody record and found the following changes: • Several samples are marked “Hold” on the custody record pending results for the first depth interval from that location. Four samples were released for Total Lead analysis per PBW’s request. The results are reported in work orders 600-72755-2, 600-72755-3, and 600-72840-2. • Total Arsenic was added for sample 2013-WMU14-3 (0.9-2) per PBW’s request. • Total Arsenic and Total Selenium were added for all depth intervals from locations RMSB-1, RMSB-3, RMSB-5, RMSB-6, RMSB-7, RMSB-8, and RMSB-9 including the field duplicates collected at these locations (DUP-13, DUP-14, DUP 16, and Dup 17) per PBW’s request.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation, except as follows: • The analytical method used for pH measurement (i.e., SW846 9045C) states that the samples should be analyzed as soon as possible, which has been clarified by EPA as 15-minutes per the laboratory narrative. This is only possible if the measurement is made in the field. For the five samples with pH reported, the samples were analyzed at the laboratory seven days after collection but with measurement of pH immediately after sample preparation. The reviewer determined that data qualification is not necessary.

QC PARAMETER	QC OUTCOME

Sample Condition

Note that the samples in laboratory job number J74152 were received without ice at 22.2 C. These samples were analyzed for Total Cadmium and Total Lead only and neither chemical nor thermal preservation is required for metals (except Mercury) in soils per SW-846 *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. Thus, there is no effect on data quality.

Field Procedures

The samples were collected and placed immediately into sterilized jars provided by the laboratory and then into a cooler with ice, as required, for overnight delivery to the laboratory. (Note that for samples requiring VOC analysis, a sample aliquot was collected using a bulk sampling technique into a dedicated 2-ounce jar with a lined lid that was completely filled and then frozen upon receipt at the laboratory until preparation and analysis.)

Seven field duplicates were collected with the 73 investigative samples along with two field MS/MSD pairs and one equipment rinsate blank. The rinsate blank was collected on 5/21/13 when a few of the samples were collected with a hand trowel. Trip blanks were not included in the coolers containing VOC samples.

Results Reporting Procedures

The hardcopy analytical results include a Result, MQL (adjusted), and SDL. The EDD includes the MDL, SDL (under the SQL column per previously used terminology) and the MQL, which is not adjusted for sample specific factors.

Results are reported in SU for pH and in mg/kg with dry-weight correction for all remaining analytes. Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

One VOC sample (2013-RMSB-2 (5-6)) required a 5x dilution due to the nature of the sample matrix, and thus this sample has elevated reporting limits for one or more non-detects. Other samples required dilution but only for detected analytes.

MQLs

The LORPs have been established by PBW as the Resident Assessment Levels (RALs), which are the minimum of the TRRP residential Tier 1 $^{Tot}Soil_{Comb}$ and Tier 1, 2, or 3 $^{GW}Soil_{Class3}$ PCLs for a 30-acre source area. The Unadjusted MQLs for the laboratory are at or below the LORPs for each applicable analyte, except as follows:

Analyte	LORP	Laboratory MQL	Laboratory MDL
Benzidine	0.001 mg/kg	0.0833 mg/kg	0.00902 mg/kg
N-Nitrosodimethylamine	0.002 mg/kg	0.0167 mg/kg	0.00419 mg/kg

The laboratory MQLs are considered the lowest attainable using standard methodology (SW-846 8270C LL) without special analytical techniques and are considered adequate for this phase of the site investigation.

MDLs

According to the LRC, an MDL study was performed for each applicable analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of detectability check standards (DCS) as required per TRRP-13. Results for the DCS are included in the data packages.

Laboratory Blanks

No analytes are reported above the detection limit in the laboratory blanks, which confirms that no contamination was introduced in the laboratory, except as follows:

QC PARAMETER QC OUTCOME

Laboratory Blanks

Lab	Blank Type	QC Batch	Analyte	Blank Concentration
TestAmerica	Method	105694	Barium	0.05000 J mg/Kg
TestAmerica	Method	105785	Barium	0.05500 J mg/Kg
TestAmerica	Method	105897	Barium	0.2750 J mg/Kg
TestAmerica	Method	105922	Barium	0.2850 J mg/Kg
TestAmerica	Method	106775	Lead	0.1100 J mg/Kg
TestAmerica	Method	105753	Chloroform	0.0008804 J mg/Kg
TestAmerica	Method	10d5880	Chloroform	0.001031 J mg/Kg
TestAmerica	Method	105934	Chloroform	0.001052 J mg/Kg

Results for samples prepared in the same QC batch as a contaminated method blank may be affected by laboratory contamination. For Barium and Lead, all of the associated samples have an analyte concentration well above that in the blank and thus there is no effect on data quality. For Chloroform, the reviewer applied a U-flag to the detects in the associated samples at a concentration similar to that in the blank (i.e., within five times). This resulted in the qualification of all detects for Chloroform in the sample set.

Field QC Blanks

No analytes are reported above the detection limit in the equipment rinsate blank, which confirms that no contamination was introduced in the field.

Laboratory Control Spike

The laboratory prepared one laboratory control spike (LCS) for each analytical batch and reported recoveries for all of the analytes. The LCS recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

Test	QC Batch	Analyte	LCS Recovery
VOC	105753	Acetone	51%
SVOC	105736	3-Nitroaniline	59%
SVOC	105736	4,6-Dinitro-2-methylphenol	52%
SVOC	105736	Benzidine	19%
SVOC	105792	4,6-Dinitro-2-methylphenol	49%
SVOC	105792	Benzidine	47%
SVOC	105942	4,6-Dinitro-2-methylphenol	36%
SVOC	106045	4,6-Dinitro-2-methylphenol	45%
SVOC	106045	Benzidine	45%

In each case, the LCS recovery is below the limits (but above the data rejection limit of 10% for organics), which indicates a potential low bias for detects and non-detects. Thus, the reviewer qualified the results for the given analyte in the associated samples (i.e., those prepared in the same QC batch) as estimated with a low bias (JL or UJL).

Matrix Spike Recovery

The laboratory prepared at least one matrix spike (MS) and matrix spike duplicate (MSD) with each analytical batch plus a post digestion spike (PDS) with each metals analytical batch. MS/MSD recoveries are reported for all of the analytes for MS/MSD prepared using a sample from the site, which includes one or more MS/MSD for Total Metals (Ag, As, Ba, Cd, Cr, Pb, Se and Hg), VOC and SVOC, as shown in Table 1.

QC PARAMETER	QC OUTCOME
Matrix Spike Recovery	For five of the Total Metals (Ag, Ba, Cr, Se and Hg), the MS/MSD recoveries are within the TRRP recommended criteria, which indicates good accuracy for the preparation and analysis technique on the given sample matrix. For Total Arsenic, Total Cadmium, Total Lead, VOC and SVOC, some MS/MSD recoveries are outside the criteria. Details for each exceedance are given in Table 3. The reviewer assessed data quality and applied qualifiers as shown in the table. PDS outcomes are given on the LRC but PDS data are not reportable data per TRRP-13. According to the LRC, the PDS met method requirements, which indicates good accuracy for the analysis technique on the given sample matrix. However, in order to better evaluate data quality, the reviewer requested PDS data from TestAmerica for work orders 600-72755-1 and 600-72840-1 and it was provided as package addenda (see Attachment 2). PDS recoveries for MS/MSD with exceedances are shown in Table 3.
Surrogate Recovery	The laboratory used one to six surrogates for each organic analysis. Surrogate recoveries are within the laboratory limits, which indicates that the overall accuracy of the preparation and analysis technique is good for each particular sample, except as follows: • For SVOC sample 2013-RMSB-10 (5-6), one of the six surrogates has a recovery (124%) that is slightly above the laboratory limits (56-123%). Per TRRP-13, data qualification is not required since only one surrogate is outside the limits for a multi-surrogate analysis.
Laboratory Duplicate Precision	The laboratory prepared at least one matrix spike duplicate (MSD) with each analytical batch. Additionally, the laboratory prepared one matrix duplicate (MD) with each metals analytical batch. RPDs are reported for all of the analytes for MSD/MD prepared using a sample from the site, which includes one or more MSD/MD for Total Metals (Ag, As, Ba, Cd, Cr, Pb, Se and Hg), VOC and SVOC, as shown in Table 1. For three of the Total Metals (Ag, Se and Hg) and SVOC, the MSD/MD RPDs are within the TRRP recommended criteria, which indicates good precision for the preparation and analysis technique on the given sample matrix. For Total Arsenic, Total Barium, Total Cadmium, Total Chromium, Total Lead, and VOC, some MSD/MD RPDs are outside the criteria. Details for each exceedance are given in Table 3. The reviewer assessed data quality and applied qualifiers as shown in the table.
Field Duplicate Precision	Seven field duplicates were collected with the samples and analyzed for Total Metals (As, Cd, Pb, Se) and/or pH. Results are summarized in Table 4. The RPDs (or the absolute difference between results for concentrations <5xMQL and for non-detects) are within the TRRP criteria, which indicates good precision for the sampling, preparation, and analysis technique on the given sample matrix, except as follows: • The results for Total Cadmium and Total Lead are outside the criteria for the pairs collected at 2013-RMSB-1 (1.5-2) and MW-31 (0.9-2). • The results for Total Lead are slightly outside the criteria for the pair collected at MW-31R (0.9-2).

QC PARAMETER	QC OUTCOME
Field Duplicate Precision	The reviewer qualified the detects for these metals in the original sample and field duplicate sample as estimated with an unknown bias (J).
Instrument Tuning	According to the LRC, instrument tuning met method requirements for the samples, which indicates the GC/MS instrument was properly set up to identify analytes.
Instrument Calibration	According to the LRC, initial and continuing calibration data met method requirements for all reported results, which indicates the instruments were properly calibrated to measure analyte concentrations, except as follows: • For SVOC analysis batch 105913, the continuing calibration verification (CCV) %drift is outside the criteria for Benzidine at -75.8%. The laboratory standard operating procedure allows up to four analytes (that are not calibration check compounds (CCC) per SW846) to exceed the criteria. Per TRRP13, the reviewer qualified the results for Benzidine in the associated samples (i.e., those analyzed on the same shift), which are all non-detect, as estimated with an unknown bias (UJ).
Instrument Performance	According to the LRC, the serial dilution and ICP interference check samples met method requirements, which indicates that no significant matrix interference exists, except as follows: • The %difference for Chromium for the serial dilution (SD) prepared using sample 2013-RMSB-2 (2.5-5) (laboratory ID 600-72840-22) is above the acceptance limit due to matrix interference. SD outcomes are given on the LRC but SD data are not reportable data per TRRP-13. Since the limit used by the laboratory (10%) differs from the data quality criteria (30%) and in order to better evaluate data quality, the reviewer requested SD data from TestAmerica for work orders 600-72755-1 and 600-72840-1 and it was provided as package addenda (see Attachment 2). For sample 2013-RMSB-2 (2.5-5), the %difference for Chromium (13%) is above the method limit used by the laboratory (10%) but within the data quality criteria (30%), and thus no data qualification is required.
Internal Standards	According to the LRC, area counts and retention times were within method requirements.
Multiple Results	As shown in Table 4, the results for the field duplicate (Dup 18) collected at MW-31 (0.9-2) show exceedingly large differences for both reported analytes (non-detect vs. detect for Total Cadmium and three orders of magnitude difference for Total Lead). Based on the duplicate results and the analytical results of samples collected near MW-31 at similar intervals, PBW suspected that incorrect sample depths may have been noted on one or more of the sample jars for this boring. (Note that this is the only boring sampled on 5/9/13 and the sample labels were created with the boring location just prior to collection, and thus the sample location is not in question.) The laboratory confirmed that visually Dup-18 (orange matrix) differed from MW-31 (0.9-2) (brown matrix). The boring log notes a clayey sand, orange matrix with trace ferrous oxide nodules for the 0.9-5.8 foot interval and a silty clay, dark brown matrix with trace gravel and battery chips for the 5.8-13.8 foot interval.

QC PARAMETER	QC OUTCOME
Multiple Results	As a result, the boring was re-sampled on 5/21/13 and investigative samples were collected over three depth intervals (using the same procedure as on 5/9/13) along with a field duplicate (Dup 19) from the first interval. The results for both samplings are shown in Table 5 and both the Total Cadmium and Total Lead results from MW-31R (0.9-2) and Dup 19 confirm that the sample labeled MW-31 (0.9-2) appears to have been from a deeper depth. Given this and based on the laboratory's observations regarding sample color, the reviewer selected the second set of results (from the re-sampling on 5/21/13) for use by qualifying the first set (from the original sampling on 5/9/13) as not selected for use (NS).

TABLE 1
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MAY 2013 AND JUNE 2013

SAMPLES ANALYZED

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	RCRA Metals (ICP*)	RCRA Metals (Hg)	VOC	SVOC	pH
600-72755-001	2013-RMSB-5 (1.3-2)	INV	Solid	5/7/13	1	105718	105718	105718	105718	NA	NA	NA	NA	NA
600-72755-001	2013-RMSB-5 (1.3-2)	MS	Solid	5/7/13	1	105718	105718	105718	105718	NA	NA	NA	NA	NA
600-72755-001	2013-RMSB-5 (1.3-2)	MSD	Solid	5/7/13	1	105718	105718	105718	105718	NA	NA	NA	NA	NA
600-72755-001	2013-RMSB-5 (1.3-2)	MD	Solid	5/7/13	1	105718	105718	105718	105718	NA	NA	NA	NA	NA
600-72755-002	2013-RMSB-5 (2-5)	INV	Solid	5/7/13	1	105694	105694	NA	105694	NA	NA	NA	NA	NA
600-72755-002DL	2013-RMSB-5 (2-5)	INV	Solid	5/7/13	10	NA	NA	105694	NA	NA	NA	NA	NA	NA
600-72755-003	2013-RMSB-5 (5-7)	INV	Solid	5/7/13	1	105694	105694	NA	105694	NA	NA	NA	NA	NA
600-72755-003DL	2013-RMSB-5 (5-7)	INV	Solid	5/7/13	10	NA	NA	105694	NA	NA	NA	NA	NA	NA
600-72755-004	2013-RMSB-5 (9)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-005	DUP-13	FD	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-005	DUP-13	MS	Solid	5/7/13	1	NA	NA	NA	NA	105694	NA	NA	NA	NA
600-72755-005	DUP-13	MSD	Solid	5/7/13	1	NA	NA	NA	NA	105694	NA	NA	NA	NA
600-72755-005	DUP-13	MD	Solid	5/7/13	1	NA	NA	NA	NA	105694	NA	NA	NA	NA
600-72755-006	2013-RMSB-9 (1.3-2)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-007	2013-RMSB-9 (2-2.5)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-008	2013-RMSB-9 (5-7)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-009	2013-RMSB-9 (8)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-010	2013-RMSB-6 (1.3-2)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-011	2013-RMSB-6 (2-2.5)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-012	2013-RMSB-6 (5-7)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-013	2013-RMSB-6 (7.5)	INV	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-014	DUP-14	FD	Solid	5/7/13	1	105694	105694	105694	105694	NA	NA	NA	NA	NA
600-72755-015	2013-RMSB-4 (0-2)	INV	Solid	5/7/13	1	NA	NA	NA	NA	105694	105732	105753	105736	NA
600-72755-015	2013-RMSB-4 (0-2)	MS	Solid	5/7/13	1	NA	NA	NA	NA	NA	NA	105753	105736	NA
600-72755-015	2013-RMSB-4 (0-2)	MSD	Solid	5/7/13	1	NA	NA	NA	NA	NA	NA	105753	105736	NA
600-72755-016	2013-RMSB-4 (2-5)	INV	Solid	5/7/13	1	NA	NA	NA	NA	105694	105732	105753	105736	NA
600-72755-017	2013-RMSB-4 (5-6)	INV	Solid	5/7/13	1	NA	NA	NA	NA	105694	105732	105753	105736	NA
600-72755-018	2013-WMU14-1 (0.9-2)	INV	Solid	5/7/13	1	NA	105694	NA	NA	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	RCRA Metals (ICP*)	RCRA Metals (Hg)	VOC	SVOC	pH
600-72755-018DL	2013-WMU14-1 (0.9-2)	INV	Solid	5/7/13	50	NA	NA	105694	NA	NA	NA	NA	NA	NA
600-72755-019	2013-WMU14-1 (2-4)	INV	Solid	5/7/13	100	NA	NA	106775	NA	NA	NA	NA	NA	NA
600-72755-020	2013-WMU14-1 (4-5)	INV	Solid	5/7/13	10	NA	NA	107103	NA	NA	NA	NA	NA	NA
600-72755-021	DUP-15	FD	Solid	5/7/13	1	NA	105718	NA	NA	NA	NA	NA	NA	NA
600-72755-021DL	DUP-15	FD	Solid	5/7/13	50	NA	NA	105718	NA	NA	NA	NA	NA	NA
600-72840-001	2013-WMU6-1 (0.9-2)	INV	Solid	5/7/13	1	NA	105785	NA	NA	NA	NA	NA	NA	NA
600-72840-001	2013-WMU6-1 (0.9-2)	MS	Solid	5/7/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-001	2013-WMU6-1 (0.9-2)	MSD	Solid	5/7/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-001	2013-WMU6-1 (0.9-2)	MD	Solid	5/7/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-001DL	2013-WMU6-1 (0.9-2)	INV	Solid	5/7/13	10	NA	NA	105785	NA	NA	NA	NA	NA	NA
600-72840-002	2013-WMU6-1 (2-4)	INV	Solid	5/7/13	100	NA	NA	106775	NA	NA	NA	NA	NA	NA
600-72840-002	2013-WMU6-1 (2-4)	MS	Solid	5/7/13	100	NA	NA	106775	NA	NA	NA	NA	NA	NA
600-72840-002	2013-WMU6-1 (2-4)	MSD	Solid	5/7/13	100	NA	NA	106775	NA	NA	NA	NA	NA	NA
600-72840-002	2013-WMU6-1 (2-4)	MD	Solid	5/7/13	100	NA	NA	106775	NA	NA	NA	NA	NA	NA
600-72840-003	2013-WMU6-1 (4-5)	INV	Solid	5/7/13	1	NA	NA	107103	NA	NA	NA	NA	NA	NA
600-72840-004	2013-WMU14-2 (0.9-2)	INV	Solid	5/7/13	1	NA	105785	105785	NA	NA	NA	NA	NA	NA
600-72840-007	2013-WMU16-1 (0.9-2)	INV	Solid	5/7/13	1	NA	105785	105785	NA	NA	NA	NA	NA	NA
600-72840-010	2013-WMU14-3 (0.9-2)	INV	Solid	5/7/13	1	105785	105785	105785	NA	NA	NA	NA	NA	NA
600-72840-013	2013-STB-9 (5-5.5)	INV	Solid	5/7/13	1	NA	105785	105785	NA	NA	NA	NA	NA	NA
600-72840-014	2013-RMSB-8 (2.1-3.1)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-015	2013-RMSB-8 (5-7)	INV	Solid	5/8/13	1	105785	105785	NA	105785	NA	NA	NA	NA	NA
600-72840-015DL	2013-RMSB-8 (5-7)	INV	Solid	5/8/13	10	NA	NA	105785	NA	NA	NA	NA	NA	NA
600-72840-016	2013-RMSB-8 (7.5)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-017	2013-RMSB-1 (1.5-2)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-018	2013-RMSB-1 (2-5)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-019	2013-RMSB-1 (5-5.5)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-020	2013-RMSB-1 (6)	INV	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-021	DUP 16	FD	Solid	5/8/13	1	105785	105785	105785	105785	NA	NA	NA	NA	NA
600-72840-022	2013-RMSB-2 (2.5-5)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105785	105732	105880	105792	NA
600-72840-022	2013-RMSB-2 (2.5-5)	MS	Solid	5/8/13	1	NA	NA	NA	NA	105785	NA	NA	NA	NA
600-72840-022	2013-RMSB-2 (2.5-5)	MSD	Solid	5/8/13	1	NA	NA	NA	NA	105785	NA	NA	NA	NA
600-72840-022	2013-RMSB-2 (2.5-5)	MD	Solid	5/8/13	1	NA	NA	NA	NA	105785	NA	NA	NA	NA
600-72840-023	2013-RMSB-2 (5-6)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105785	105732	NA	105792	NA
600-72840-023	2013-RMSB-2 (5-6)	MS	Solid	5/8/13	1	NA	NA	NA	NA	NA	105732	NA	NA	NA
600-72840-023	2013-RMSB-2 (5-6)	MD	Solid	5/8/13	1	NA	NA	NA	NA	NA	105732	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	RCRA Metals (ICP*)	RCRA Metals (Hg)	VOC	SVOC	pH
600-72840-023	2013-RMSB-2 (5-6)	INV	Solid	5/8/13	5	NA	NA	NA	NA	NA	NA	105880	NA	NA
600-72840-023DL	2013-RMSB-2 (5-6)	INV	Solid	5/8/13	10	NA	NA	NA	NA	NA	NA	NA	105792 *	NA
600-72906-001	2013-RMSB-3 (1.5-2)	INV	Solid	5/8/13	1	105897	105897	105897	105897	NA	NA	NA	NA	NA
600-72906-002	2013-RMSB-3 (2-3)	INV	Solid	5/8/13	1	105897	105897	105897	105897	NA	NA	NA	NA	NA
600-72906-002	2013-RMSB-3 (2-3)	MS	Solid	5/8/13	1	NA	NA	NA	NA	105897	NA	NA	NA	NA
600-72906-002	2013-RMSB-3 (2-3)	MSD	Solid	5/8/13	1	NA	NA	NA	NA	105897	NA	NA	NA	NA
600-72906-002	2013-RMSB-3 (2-3)	MD	Solid	5/8/13	1	NA	NA	NA	NA	105897	NA	NA	NA	NA
600-72906-003	2013-RMSB-3 (5-5.5)	INV	Solid	5/8/13	1	105897	105897	105897	105897	NA	NA	NA	NA	NA
600-72906-004	2013-RMSB-3 (6)	INV	Solid	5/8/13	1	105897	105897	105897	105897	NA	NA	NA	NA	NA
600-72906-005	Dup 17	FD	Solid	5/8/13	1	105897	105897	105897	105897	NA	NA	NA	NA	NA
600-72906-006	2013-RMSB-10 (1.3-2)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105897	105944	105880	106045	NA
600-72906-006	2013-RMSB-10 (1.3-2)	MS	Solid	5/8/13	1	NA	NA	NA	NA	NA	NA	NA	106045	NA
600-72906-006	2013-RMSB-10 (1.3-2)	MSD	Solid	5/8/13	1	NA	NA	NA	NA	NA	NA	NA	106045	NA
600-72906-007	2013-RMSB-10 (2-3)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105897	105944	105934	105942	NA
600-72906-008	2013-RMSB-10 (5-6)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105922	105944	105934	105942	NA
600-72906-009	2013-RMSB-10 (7)	INV	Solid	5/8/13	1	NA	NA	NA	NA	105922	105944	105934	106045	NA
600-72906-010	2013-RMSB-7 (1.5-2)	INV	Solid	5/8/13	1	105922	105922	105922	105922	NA	NA	NA	NA	NA
600-72906-011	2013-RMSB-7 (2-4)	INV	Solid	5/8/13	1	105922	105922	105922	105922	NA	NA	NA	NA	NA
600-72906-012	2013-RMSB-7 (5-6)	INV	Solid	5/8/13	1	105922	105922	105922	105922	NA	NA	NA	NA	NA
600-72906-013	2013-RMSB-7 (6.5)	INV	Solid	5/8/13	1	105922	105922	105922	105922	NA	NA	NA	NA	NA
600-72906-014	2013-RMSB-5 (2-5)	INV	Solid	5/7/13	1	NA	NA	NA	NA	NA	NA	105934	NA	NA
600-72906-015	MW-31 (0.9-2)	INV	Solid	5/9/13	1	NA	105922	NA	NA	NA	NA	NA	NA	NA
600-72906-015DL	MW-31 (0.9-2)	INV	Solid	5/9/13	10	NA	NA	105922	NA	NA	NA	NA	NA	NA
600-72906-016	MW-31 (5.8-8)	INV	Solid	5/9/13	1	NA	105922	105922	NA	NA	NA	NA	NA	NA
600-72906-017	MW-31 (9.5)	INV	Solid	5/9/13	1	NA	105922	105922	NA	NA	NA	NA	NA	NA
600-72906-018	Dup 18	FD	Solid	5/9/13	1	NA	105922	105922	NA	NA	NA	NA	NA	NA
600-73243-001	SRB - VS - 1	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-002	SRB - VS - 2	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-003	SRB - VS - 3	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-004	SRB - VS - 4	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-005	SRB - VS - 5	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-006	SRB - VS - 6	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-007	SRB - VS - 7	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-008	SRB - VS - 8	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA

Lab ID	Field ID	Sample Type	Sample Matrix	Sample Date	DF	QC Batch								
						Total As	Total Cd	Total Pb	Total Se	RCRA Metals (ICP*)	RCRA Metals (Hg)	VOC	SVOC	pH
600-73243-008	SRB - VS - 8	MS	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-008	SRB - VS - 8	MSD	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-008	SRB - VS - 8	MD	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-009	SRB - VS - 9	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-010	SRB - VS - 10	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73243-011	SRB - VS - 11	INV	Solid	5/15/13	1	NA	106339	106339	NA	NA	NA	NA	NA	NA
600-73545-001	2012-FWFS-7A (0-0.5)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-009	MW-31R (0.9-2)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	107046
600-73545-009	MW-31R (0.9-2)	MS	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-009	MW-31R (0.9-2)	MSD	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-009	MW-31R (0.9-2)	MD	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-010	MW-31R (5.8-7.3)	INV	Solid	5/21/13	1	NA	106792	NA	NA	NA	NA	NA	NA	107046
600-73545-010DL	MW-31R (5.8-7.3)	INV	Solid	5/21/13	10	NA	NA	106792	NA	NA	NA	NA	NA	NA
600-73545-011	MW-31R (9.5)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	107046
600-73545-012	Dup 19	FD	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	107046
600-73545-013	2013-BB-1 (0.9-2)	INV	Solid	5/21/13	1	NA	106792	NA	NA	NA	NA	NA	NA	107046
600-73545-013DL	2013-BB-1 (0.9-2)	INV	Solid	5/21/13	10	NA	NA	106792	NA	NA	NA	NA	NA	NA
600-73545-016	2013-RRS-4A (0.9-2)	INV	Solid	5/21/13	1	NA	106792	NA	NA	NA	NA	NA	NA	NA
600-73545-016DL	2013-RRS-4A (0.9-2)	INV	Solid	5/21/13	10	NA	NA	106792	NA	NA	NA	NA	NA	NA
600-73545-018	SRB-VS-9 (0.5-2)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-021	SRB-VS-9A (0-0.5)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-022	SRB-VS-9B (0-0.5)	INV	Solid	5/21/13	1	NA	106792	106792	NA	NA	NA	NA	NA	NA
600-73545-023	EB (05212013)	EB	Water	5/21/13	1	NA	106828	106828	NA	NA	NA	NA	NA	NA
600-74152-001	SRB - VS - 9C	INV	Solid	6/3/13	1	NA	107843	107843	NA	NA	NA	NA	NA	NA
600-74152-002	SB - VS - 1	INV	Solid	6/3/13	1	NA	107843	107843	NA	NA	NA	NA	NA	NA
600-74152-003	SB - VS - 2	INV	Solid	6/3/13	1	NA	107843	107843	NA	NA	NA	NA	NA	NA

*RCRA Metals (ICP) - Ag, As, Ba, Cd, Cr, Pb, Se

DF – Dilution Factor
EB – Equipment Rinsate Blank
FD – Field Duplicate
INV – Investigative
MD – Matrix Duplicate
MS – Matrix Spike
MSD – Matrix Spike Duplicate

Field Duplicate Key

Field Duplicate		Original Sample	
DUP-13	600-72755-005	2013-RMSB-5 (1.3-2)	600-72755-001
DUP-14	600-72755-014	2013-RMSB-6 (1.3-2)	600-72755-010
DUP-15	600-72755-021	2013-WMU14-1 (0.9-2)	600-72755-018
DUP 16	600-72840-021	2013-RMSB-1 (1.5-2)	600-72840-017
Dup 17	600-72906-005	2013-RMSB-3 (1.5-2)	600-72906-001
Dup 18	600-72906-018	MW-31 (0.9-2)	600-72906-015
Dup 19	600-73545-012	MW-31R (0.9-2)	600-73545-009

TABLE 2
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MAY 2013 AND JUNE 2013

QUALIFIED SAMPLE RESULTS

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2012-FWFS-7A (0-0.5)	600-73545-001	5/21/13	Lead	44.7		mg/Kg	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD)
2013-RMSB-1 (1.5-2)	600-72840-017	5/8/13	Cadmium	14.3		mg/Kg	J	Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
2013-RMSB-1 (1.5-2)	600-72840-017	5/8/13	Lead	1920		mg/Kg	J	Poor field precision (190 RPD); Use higher value (from the original sample)
2013-RMSB-10 (1.3-2)	600-72906-006	5/8/13	Bromomethane	0.00102	U	mg/Kg	X8	none
2013-RMSB-10 (1.3-2)	600-72906-006	5/8/13	Chloroform	0.00127	J b	mg/Kg	U	Laboratory blank contamination (0.001031 J mg/Kg); Result is between SDL and MQL
2013-RMSB-10 (1.3-2)	600-72906-006	5/8/13	4,6-Dinitro-2-methylphenol	0.00609	U	mg/Kg	UJL	Low LCS recovery (45%)
2013-RMSB-10 (1.3-2)	600-72906-006	5/8/13	Benzidine	0.011	U	mg/Kg	UJL	Low LCS recovery (45%)
2013-RMSB-10 (2-3)	600-72906-007	5/8/13	Bromomethane	0.00103	U	mg/Kg	X8	none
2013-RMSB-10 (2-3)	600-72906-007	5/8/13	Chloroform	0.000861	J b	mg/Kg	U	Laboratory blank contamination (0.001052 J mg/Kg); Result is between SDL and MQL
2013-RMSB-10 (2-3)	600-72906-007	5/8/13	4,6-Dinitro-2-methylphenol	0.00616	U	mg/Kg	UJL	Low LCS recovery (36%); Low MS/MSD ave recovery (40%)
2013-RMSB-10 (2-3)	600-72906-007	5/8/13	Benzidine	0.0112	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-10 (5-6)	600-72906-008	5/8/13	Bromomethane	0.00101	U	mg/Kg	X8	none
2013-RMSB-10 (5-6)	600-72906-008	5/8/13	Chloroform	0.00115	J b	mg/Kg	U	Laboratory blank contamination (0.001052 J mg/Kg); Result is between SDL and MQL
2013-RMSB-10 (5-6)	600-72906-008	5/8/13	4,6-Dinitro-2-methylphenol	0.00608	U	mg/Kg	UJL	Low LCS recovery (36%); Low MS/MSD ave recovery (40%)
2013-RMSB-10 (5-6)	600-72906-008	5/8/13	Benzidine	0.011	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-10 (7)	600-72906-009	5/8/13	Bromomethane	0.00112	U	mg/Kg	X8	none
2013-RMSB-10 (7)	600-72906-009	5/8/13	4,6-Dinitro-2-methylphenol	0.00669	U	mg/Kg	UJL	Low LCS recovery (45%)
2013-RMSB-10 (7)	600-72906-009	5/8/13	Benzidine	0.0121	U	mg/Kg	UJL	Low LCS recovery (45%)
2013-RMSB-2 (2.5-5)	600-72840-022	5/8/13	Bromomethane	0.00111	U	mg/Kg	X8	none
2013-RMSB-2 (2.5-5)	600-72840-022	5/8/13	Chloroform	0.00114	J b	mg/Kg	U	Laboratory blank contamination (0.001031 J mg/Kg); Result is between SDL and MQL
2013-RMSB-2 (2.5-5)	600-72840-022	5/8/13	4,6-Dinitro-2-methylphenol	0.00663	U	mg/Kg	UJL	Low LCS recovery (49%)
2013-RMSB-2 (2.5-5)	600-72840-022	5/8/13	Benzidine	0.012	U	mg/Kg	UJ	CCV %D exceedance (-75.8%); Low LCS recovery (47%)
2013-RMSB-2 (5-6)	600-72840-023	5/8/13	Bromomethane	0.00581	U	mg/Kg	X8	none

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2013-RMSB-2 (5-6)	600-72840-023	5/8/13	Chloroform	0.00617	J b	mg/Kg	U	Laboratory blank contamination (0.001031 J mg/Kg); Result is between SDL and MQL
2013-RMSB-2 (5-6)	600-72840-023	5/8/13	4,6-Dinitro-2-methylphenol	0.00695	U	mg/Kg	UJL	Low LCS recovery (49%)
2013-RMSB-2 (5-6)	600-72840-023	5/8/13	Benzidine	0.0126	U	mg/Kg	UJ	CCV %D exceedance (-75.8%); Low LCS recovery (47%)
2013-RMSB-3 (2-3)	600-72906-002	5/8/13	Arsenic	4.08		mg/Kg	J	Poor MD precision (76 RPD)
2013-RMSB-3 (2-3)	600-72906-002	5/8/13	Lead	8.78		mg/Kg	J	Poor MD precision (85 RPD)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	1,1,2,2-Tetrachloroethane	0.00108	U	mg/Kg	UJL	Low MS/MSD ave recovery (59%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	2-Butanone (MEK)	0.00235	U	mg/Kg	UJL	Low MS/MSD ave recovery (56%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	2-Hexanone	0.00125	U	mg/Kg	UJL	Low MS/MSD ave recovery (52%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	4-Methyl-2-pentanone (MIBK)	0.00182	U	mg/Kg	UJL	Low MS/MSD ave recovery (54%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Acetone	0.00205	U	mg/Kg	UJL	Low LCS recovery (51%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Bromomethane	0.00103	U	mg/Kg	X8	none
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Carbon disulfide	0.00068	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Chloroform	0.00138	J b	mg/Kg	U	Laboratory blank contamination (0.00088 J mg/Kg); Result is between SDL and MQL
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Methyl tert-butyl ether	0.00226	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Vinyl acetate	0.00115	U	mg/Kg	UJL	Low MS/MSD ave recovery (35%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	3-Nitroaniline	0.00883	U	mg/Kg	UJL	Low LCS recovery (59%); Low MS/MSD ave recovery (45%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	4,6-Dinitro-2-methylphenol	0.00615	U	mg/Kg	UJL	Low LCS recovery (52%); Low MS/MSD ave recovery (34%)
2013-RMSB-4 (0-2)	600-72755-015	5/7/13	Benzidine	0.0111	U	mg/Kg	UJL	Low LCS recovery (19%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	1,1,2,2-Tetrachloroethane	0.00103	U	mg/Kg	UJL	Low MS/MSD ave recovery (59%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	2-Butanone (MEK)	0.00225	U	mg/Kg	UJL	Low MS/MSD ave recovery (56%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	2-Hexanone	0.0012	U	mg/Kg	UJL	Low MS/MSD ave recovery (52%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	4-Methyl-2-pentanone (MIBK)	0.00174	U	mg/Kg	UJL	Low MS/MSD ave recovery (54%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Acetone	0.00196	U	mg/Kg	UJL	Low LCS recovery (51%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Bromomethane	0.000982	U	mg/Kg	X8	none
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Carbon disulfide	0.000651	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Chloroform	0.00131	J b	mg/Kg	U	Laboratory blank contamination (0.00088 J mg/Kg); Result is between SDL and MQL
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Methyl tert-butyl ether	0.00217	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Vinyl acetate	0.0011	U	mg/Kg	UJL	Low MS/MSD ave recovery (35%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	3-Nitroaniline	0.0084	U	mg/Kg	UJL	Low LCS recovery (59%); Low MS/MSD ave recovery (45%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	4,6-Dinitro-2-methylphenol	0.00585	U	mg/Kg	UJL	Low LCS recovery (52%); Low MS/MSD ave recovery (34%)
2013-RMSB-4 (2-5)	600-72755-016	5/7/13	Benzidine	0.0106	U	mg/Kg	UJL	Low LCS recovery (19%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	1,1,2,2-Tetrachloroethane	0.00114	U	mg/Kg	UJL	Low MS/MSD ave recovery (59%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	2-Butanone (MEK)	0.0175		mg/Kg	J	Low MS/MSD ave recovery (56%); Poor MSD precision (55 RPD)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	2-Hexanone	0.00132	U	mg/Kg	UJL	Low MS/MSD ave recovery (52%)

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	4-Methyl-2-pentanone (MIBK)	0.00192	U	mg/Kg	UJL	Low MS/MSD ave recovery (54%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Acetone	0.114		mg/Kg	J	Low LCS recovery (51%); Poor MSD precision (98 RPD)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Bromomethane	0.00108	U	mg/Kg	X8	none
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Carbon disulfide	0.000718	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Chloroform	0.00154	J b	mg/Kg	U	Laboratory blank contamination (0.00088 J mg/Kg); Result is between SDL and MQL
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Methyl tert-butyl ether	0.00239	U	mg/Kg	UJL	Low MS/MSD ave recovery (58%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Vinyl acetate	0.00121	U	mg/Kg	UJL	Low MS/MSD ave recovery (35%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	3-Nitroaniline	0.00931	U	mg/Kg	UJL	Low LCS recovery (59%); Low MS/MSD ave recovery (45%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	4,6-Dinitro-2-methylphenol	0.00648	U	mg/Kg	UJL	Low LCS recovery (52%); Low MS/MSD ave recovery (34%)
2013-RMSB-4 (5-6)	600-72755-017	5/7/13	Benzidine	0.0117	U	mg/Kg	UJL	Low LCS recovery (19%)
2013-RMSB-5 (1.3-2)	600-72755-001	5/7/13	Lead	1790		mg/Kg	J	Poor MSD precision (41 RPD)
2013-RMSB-5 (2-5)	600-72906-014	5/7/13	Bromomethane	0.00105	U	mg/Kg	X8	none
2013-RMSB-5 (2-5)	600-72906-014	5/7/13	Chloroform	0.00109	J b	mg/Kg	U	Laboratory blank contamination (0.001052 J mg/Kg); Result is between SDL and MQL
2013-WMU6-1 (0.9-2)	600-72840-001	5/7/13	Cadmium	2.41		mg/Kg	J	Poor MD precision (63 RPD)
2013-WMU6-1 (0.9-2)	600-72840-001	5/7/13	Lead	10800		mg/Kg	J	Poor MSD precision (103 RPD); Poor MD precision (127 RPD)
DUP-13	600-72755-005	5/7/13	Lead	1580		mg/Kg	J	Poor MD precision (34 RPD)
DUP 16	600-72840-021	5/8/13	Cadmium	0.463		mg/Kg	J	Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
DUP 16	600-72840-021	5/8/13	Lead	49.3		mg/Kg	J	Poor field precision (190 RPD); Use higher value (from the original sample)
Dup 18	600-72906-018	5/9/13	Cadmium	0.0304	U	mg/Kg	NS	Not selected for use (boring re-sampled); Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
Dup 18	600-72906-018	5/9/13	Lead	68		mg/Kg	NS	Not selected for use (boring re-sampled); Poor field precision (200 RPD); Use higher value (from the original sample)
Dup 19	600-73545-012	5/21/13	Lead	10.7		mg/Kg	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD); Poor field precision (52 RPD); Use higher value (from the original sample)
MW-31 (0.9-2)	600-72906-015	5/9/13	Cadmium	1.67		mg/Kg	NS	Not selected for use (boring re-sampled); Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
MW-31 (0.9-2)	600-72906-015	5/9/13	Lead	12900		mg/Kg	NS	Not selected for use (boring re-sampled); Poor field precision (200 RPD); Use higher value (from the original sample)
MW-31 (5.8-8)	600-72906-016	5/9/13	Cadmium	1.35		mg/Kg	NS	Not selected for use (boring re-sampled)
MW-31 (5.8-8)	600-72906-016	5/9/13	Lead	1210		mg/Kg	NS	Not selected for use (boring re-sampled)

Field ID	Lab ID	Sample Date	Analyte	Lab Result			DVQ	QC_Comment
MW-31 (9.5)	600-72906-017	5/9/13	Cadmium	0.245	J	mg/Kg	NS	Not selected for use (boring re-sampled); Result is between SDL and MQL
MW-31 (9.5)	600-72906-017	5/9/13	Lead	41		mg/Kg	NS	Not selected for use (boring re-sampled)
MW-31R (0.9-2)	600-73545-009	5/21/13	Lead	18.3		mg/Kg	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD); Poor field precision (52 RPD); Use higher value (from the original sample)
MW-31R (9.5)	600-73545-011	5/21/13	Lead	35.4		mg/Kg	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD)
SRB-VS-9 (0.5-2)	600-73545-018	5/21/13	Lead	14.8		mg/Kg	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD)

Note: In addition to the above results, all detects between the SDL and MQL (i.e., results with a laboratory J-flag) should be considered estimated since the reported concentration is below the calibration range.

J Estimated data; The analyte was detected and identified. The associated numerical value (i.e., the reported sample concentration) is the approximate concentration of the analyte in the sample.

NJ Tentatively identified, estimated data; The analysis indicates the presence of the analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.

NS Not selected; Another result (from a secondary dilution, different analytical method, re-sampling, etc.) is selected for use based on QC outcomes and/or reported concentrations.

R Rejected data; The data is unusable. Serious QC deficiencies make it impossible to verify the absence or presence of this analyte.

U Not detected; The analyte was not detected >5x (10x for common contaminants) the level in an associated blank and thus should be considered not detected above the level of the associated numerical value (i.e., the reported sample concentration).

UJ Estimated data; The analyte was not detected above the reported sample detection limit (SDL). The numerical value of the SDL is estimated and may be inaccurate.

X7 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.

X8 The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ offers accreditation for this analyte in this matrix by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.

H Bias in sample result is likely to be high

L Bias in sample result is likely to be low

NOTE: For multiple QC issues, the reviewer applied the most severe flag. (R >U >NJ >J >JL/JH for detects and R >UJ >UJL for non-detects)

TABLE 3
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MAY 2013 AND JUNE 2013

MS, MSD, AND MD EXCEEDANCES

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification (Accuracy)	Data Qualification (Precision)
6010B	105694	Barium	DUP-13	--	--	P	P	P	NP	P	35	--	None - The MSD RPD is in control and thus a batch effect is not indicated. This analyte included for batch QC but not reported for the parent sample.
6010B	105694	Cadmium	DUP-13	65.2	26.7	172	199	186	NP	P	P	None - The recovery check is waived due to insufficient spike amount.	--
6010B	105694	Chromium	DUP-13	--	--	P	P	P	NP	P	187	--	None - The MSD RPD is in control and thus a batch effect is not indicated. This analyte included for batch QC but not reported for the parent sample.
6010B	105694	Lead	DUP-13	1580	53.4	66	396	231	NP	P	34	None - The recovery check is waived due to insufficient spike amount.	The MSD RPD is in control and thus a batch effect is not indicated. J to the detect for the analyte in the parent sample only.
6010B	105718	Cadmium	2013-RMSB-5 (1.3-2)	72.1	26.4	-3	49	23	102	P	P	None - The recovery check is waived due to insufficient spike amount.	--

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification (Accuracy)	Data Qualification (Precision)
6010B	105718	Lead	2013-RMSB-5 (1.3-2)	1790	52.8	-875	464	-206	NC	41	P	None - The recovery check is waived due to insufficient spike amount.	The MD RPD is in control and thus a batch effect is not indicated. J to the detect for the analyte in the parent sample only.
6010B	105785	Arsenic	2013-WMU6-1 (0.9-2)	25.8	55.2	116	146	131	NP	P	86	JH to detects for Arsenic in similar samples prepared in the same QC batch (none, analyte not reported in parent sample and no other similar samples in batch)	None - The MSD RPD is in control and thus a batch effect is not indicated. This analyte included for batch QC but not reported for the parent sample.
6010B	105785	Cadmium	2013-WMU6-1 (0.9-2)	--	--	P	P	P	NP	P	63	--	The MSD RPD is in control and thus a batch effect is not indicated. J to the detect for the analyte in the parent sample only.
6010B	105785	Lead	2013-WMU6-1 (0.9-2)	1040	55.2	52900	3759	28330	NP	103	127	None - The recovery check is waived due to insufficient spike amount.	J to detects for the analyte in similar samples in the same QC batch (parent sample only)
6010B	105785	Lead	2013-RMSB-2 (2.5-5)	114	64.3	136	122	129	101	P	P	None - The recovery check is waived due to insufficient spike amount.	--
6010B	105897	Arsenic	2013-RMSB-3 (2-3)	--	--	P	P	P	NP	P	76	--	The MSD RPD is in control and thus a batch effect is not indicated. J to the detect for the analyte in the parent sample only.

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification (Accuracy)	Data Qualification (Precision)
6010B	105897	Lead	2013-RMSB-3 (2-3)	--	--	P	P	P	NP	P	85	--	The MSD RPD is in control and thus a batch effect is not indicated. J to the detect for the analyte in the parent sample only.
6010B	106775	Lead	2013-WMU6-1 (2-4)	33200	61.4	31148	21912	26530	NP	P	P	None - The recovery check is waived due to insufficient spike amount.	--
6010B	106792	Lead	MW-31R (0.9-2)	18.2	56.7	105	236	171	NA	63	47	JH to detects for the analyte in similar samples prepared in the same QC batch	J to detects for the analyte in similar samples in the same QC batch.
8260B	105753	1,1,2,2-Tetrachloroethane	2013-RMSB-4 (0-2)	ND	--	56	61	59	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8260B	105753	2-Butanone (MEK)	2013-RMSB-4 (0-2)	ND	--	40	71	56	NA	55	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	J to detects for the analyte in similar samples in the same QC batch.
8260B	105753	2-Hexanone	2013-RMSB-4 (0-2)	ND	--	45	58	52	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8260B	105753	4-Methyl-2-pentanone (MIBK)	2013-RMSB-4 (0-2)	ND	--	46	61	54	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification (Accuracy)	Data Qualification (Precision)
8260B	105753	Acetone	2013-RMSB-4 (0-2)	ND	--	37	108	73	NA	98	NA	None - Both recoveries are >10% and the average recovery is in control	J to detects for the analyte in similar samples in the same QC batch.
8260B	105753	Bromoform	2013-RMSB-4 (0-2)	ND	--	58	65	62	NA	P	NA	None - Both recoveries are >10% and the average recovery is in control	--
8260B	105753	Carbon disulfide	2013-RMSB-4 (0-2)	ND	--	57	59	58	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8260B	105753	Dibromochloro-methane	2013-RMSB-4 (0-2)	ND	--	59	65	62	NA	P	NA	None - Both recoveries are >10% and the average recovery is in control	--
8260B	105753	Methyl tert-butyl ether	2013-RMSB-4 (0-2)	ND	--	52	64	58	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8260B	105753	Vinyl acetate	2013-RMSB-4 (0-2)	ND	--	35	35	35	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8270C LL	105736	3-Nitroaniline	2013-RMSB-4 (0-2)	ND	--	44	46	45	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--

Method	QC Batch	Analyte	Parent Sample	Parent Amount (mg/kg)	Spike Amount (mg/kg)	MS %Rec	MSD %Rec	Average MS/MSD %Rec	PDS %Rec	MSD RPD	MD RPD	Data Qualification (Accuracy)	Data Qualification (Precision)
8270C LL	105736	4,6-Dinitro-2-methylphenol	2013-RMSB-4 (0-2)	ND	--	39	29	34	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8270C LL	105942	4,6-Dinitro-2-methylphenol	2013-RMSB-10 (1.3-2)	ND	--	39	41	40	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--
8270C LL	105942	Benzidine	2013-RMSB-10 (1.3-2)	ND	--	56	60	58	NA	P	NA	JL/UJL to detects/non-detects for the analyte in similar samples in the same QC batch	--

NA Not available.

NP Not performed. The batch contains multiple MS/MSD and the laboratory selected another MS/MSD for performance of the PDS and SD.

P Pass. The recovery or RPD is within the criteria.

Notes:

1. Recoveries highlighted in red are below the TRRP-recommended data quality criteria (70-130% for inorganics and 60-140% for organics) and recoveries highlighted in blue are above the criteria.
2. If the spike amount is less than the amount in the unspiked parent sample, the data are considered inconclusive and the MS/MSD recovery check was waived.
3. For metals, the reviewer considered soil samples from the site with the same order of magnitude of Lead concentration to be similar in matrix. For organics, the reviewer considered all soil samples from the site to be similar in matrix.

TABLE 4
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MAY 2013 AND JUNE 2013

FIELD DUPLICATE RESULTS

Field Duplicate	Original Sample	Sample Date	Method	Analyte	Field Duplicate Result			Original Sample Result			RPD	Absolute Difference	3x MQL	Qualified
DUP-13	2013-RMSB-5 (1.3-2)	5/7/13	6010B	Arsenic	14.7		mg/Kg	17.5		mg/Kg	17	NA	3.22	No
DUP-13	2013-RMSB-5 (1.3-2)	5/7/13	6010B	Cadmium	65.2		mg/Kg	72.1		mg/Kg	10	NA	0.81	No
DUP-13	2013-RMSB-5 (1.3-2)	5/7/13	6010B	Lead	1580		mg/Kg	1790		mg/Kg	12	NA	1.60	No
DUP-13	2013-RMSB-5 (1.3-2)	5/7/13	6010B	Selenium	4.21		mg/Kg	4.77		mg/Kg	NA	0.56	6.44	No
DUP-14	2013-RMSB-6 (1.3-2)	5/7/13	6010B	Arsenic	6.32		mg/Kg	8.6		mg/Kg	31	NA	3.54	No
DUP-14	2013-RMSB-6 (1.3-2)	5/7/13	6010B	Cadmium	0.878		mg/Kg	0.949		mg/Kg	NA	0.071	0.88	No
DUP-14	2013-RMSB-6 (1.3-2)	5/7/13	6010B	Lead	716		mg/Kg	615		mg/Kg	15	NA	1.77	No
DUP-14	2013-RMSB-6 (1.3-2)	5/7/13	6010B	Selenium	0.305	U	mg/Kg	0.318	J	mg/Kg	NA	0.013	7.07	No
DUP-15	2013-WMU14-1 (0.9-2)	5/7/13	6010B	Cadmium	13.6		mg/Kg	16.6		mg/Kg	20	NA	0.91	No
DUP-15	2013-WMU14-1 (0.9-2)	5/7/13	6010B	Lead	69000		mg/Kg	95000		mg/Kg	32	NA	90.71	No
DUP 16	2013-RMSB-1 (1.5-2)	5/8/13	6010B	Arsenic	12		mg/Kg	19.4		mg/Kg	47	NA	4.09	No
DUP 16	2013-RMSB-1 (1.5-2)	5/8/13	6010B	Cadmium	0.463		mg/Kg	14.3		mg/Kg	NA	13.837	1.02	Yes
DUP 16	2013-RMSB-1 (1.5-2)	5/8/13	6010B	Lead	49.3		mg/Kg	1920		mg/Kg	190	NA	2.04	Yes
DUP 16	2013-RMSB-1 (1.5-2)	5/8/13	6010B	Selenium	0.715	J	mg/Kg	0.351	U	mg/Kg	NA	0.364	8.18	No
Dup 17	2013-RMSB-3 (1.5-2)	5/8/13	6010B	Arsenic	4.5		mg/Kg	6.19		mg/Kg	NA	1.69	3.56	No
Dup 17	2013-RMSB-3 (1.5-2)	5/8/13	6010B	Cadmium	0.233	J	mg/Kg	0.303		mg/Kg	NA	0.07	0.89	No
Dup 17	2013-RMSB-3 (1.5-2)	5/8/13	6010B	Lead	66.7		mg/Kg	56.4		mg/Kg	17	NA	1.79	No
Dup 17	2013-RMSB-3 (1.5-2)	5/8/13	6010B	Selenium	0.302	U	mg/Kg	0.308	U	mg/Kg	NA	0.006	7.14	No
Dup 18	MW-31 (0.9-2)	5/9/13	6010B	Cadmium	0.0304	U	mg/Kg	1.67		mg/Kg	NA	1.6396	0.89	Yes
Dup 18	MW-31 (0.9-2)	5/9/13	6010B	Lead	68		mg/Kg	12900		mg/Kg	200	NA	17.71	Yes
Dup 19	MW-31R (0.9-2)	5/21/13	6010B	Cadmium	0.0397	J	mg/Kg	0.0737	J	mg/Kg	NA	0.034	0.85	No
Dup 19	MW-31R (0.9-2)	5/21/13	6010B	Lead	10.7		mg/Kg	18.3		mg/Kg	52	NA	1.70	Yes
Dup 19	MW-31R (0.9-2)	5/21/13	9045C	pH	8.17		SU	7.68		SU	6.2	NA	0.03	No

Note: The RPD test (≤50%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test (≤ 3x MQL) applies.

TABLE 5
EXIDE FORMER OPERATING PLANT
SOIL SAMPLING – MAY 2013 AND JUNE 2013

RESULTS FOR MW-31

Field ID	Sample Date	Analyte	Result			Lab ID	DVQ	QC_Comment
MW-31 (0.9-2)	5/9/13	Cadmium	1.67		mg/Kg	600-72906-015	J	Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
MW-31 (0.9-2)	5/9/13	Lead	12900		mg/Kg	600-72906-015	J	Poor field precision (200 RPD); Use higher value (from the original sample)
Dup 18 (collected at MW-31 (0.9-2))	5/9/13	Cadmium	0.0304	U	mg/Kg	600-72906-018	J	Poor field precision (absolute difference >3MQL); Use higher value (from the original sample)
Dup 18 (collected at MW-31 (0.9-2))	5/9/13	Lead	68		mg/Kg	600-72906-018	J	Poor field precision (200 RPD); Use higher value (from the original sample)
MW-31 (5.8-8)	5/9/13	Cadmium	1.35		mg/Kg	600-72906-016	none	none
MW-31 (5.8-8)	5/9/13	Lead	1210		mg/Kg	600-72906-016	none	none
MW-31 (9.5)	5/9/13	Cadmium	0.245	J	mg/Kg	600-72906-017	J	Result is between SDL and MQL
MW-31 (9.5)	5/9/13	Lead	41		mg/Kg	600-72906-017	none	none
MW-31R (0.9-2)	5/21/13	Cadmium	0.0737	J	mg/Kg	600-73545-009	J	Result is between SDL and MQL
MW-31R (0.9-2)	5/21/13	Lead	18.3		mg/Kg	600-73545-009	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD); Poor field precision (52 RPD); Use higher value (from the original sample)
Dup 19 (collected at MW-31R (0.9-2))	5/21/13	Cadmium	0.0397	J	mg/Kg	600-73545-012	J	Result is between SDL and MQL
Dup 19 (collected at MW-31R (0.9-2))	5/21/13	Lead	10.7		mg/Kg	600-73545-012	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD); Poor field precision (52 RPD); Use higher value (from the original sample)
MW-31R (5.8-7.3)	5/21/13	Cadmium	5.8		mg/Kg	600-73545-010	none	none
MW-31R (5.8-7.3)	5/21/13	Lead	3150		mg/Kg	600-73545-010	none	none
MW-31R (9.5)	5/21/13	Cadmium	0.288	J	mg/Kg	600-73545-011	J	Result is between SDL and MQL
MW-31R (9.5)	5/21/13	Lead	35.4		mg/Kg	600-73545-011	J	High MS/MSD ave recovery (171%); Poor MSD precision (63 RPD); Poor MD precision (47 RPD)

ATTACHMENT 1

APPLICABLE PAGES OF THE
LABORATORY ACCREDITATION CERTIFICATE

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183207
2,4-D	TX	8545	10183207
2,4-DB	TX	8560	10183207
Acifluorfen	TX	8505	10183207
Dalapon	TX	8555	10183207
Dicamba	TX	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207
MCPP	TX	7780	10183207
Silvex (2,4,5-TP)	TX	8650	10183207

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
2-Propanol	TX	5065	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acetonitrile	TX	4320	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Benzyl chloride	TX	5635	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromofluoromethane	TX	4590	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Diethyl ether	TX	4725	10184802
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184802
Ethyl acetate	TX	4755	10184802
Ethyl methacrylate	TX	4810	10184802
Ethylbenzene	TX	4765	10184802
Ethylene oxide	TX	4795	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methacrylonitrile	TX	4925	10184802
Methyl acrylate	TX	4945	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl methacrylate	TX	4990	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Dinitrobenzene	TX	6155	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Dinitrobenzene	TX	6165	10185805
1,4-Naphthoquinone	TX	6420	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

1,4-Phenylenediamine	TX	6630	10185805
1-Chloronaphthalene	TX	5790	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Diaminotoluene	TX	5880	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethoxybenzidine	TX	6100	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

4,4'-Methylenebis(2-chloroaniline)	TX	6365	10185805
4,4'-Methylenebis(n,n-dimethylaniline)	TX	6370	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-1,3-phenylenediamine	TX	5850	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aminoazobenzene	TX	5535	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aramite	TX	5560	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Azobenzene	TX	5562	10185805
Benzenethiol (Thiophenol)	TX	6750	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Captan	TX	7190	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenz(a,j) acridine	TX	5900	10185805
Dibenzo(a,e) pyrene	TX	5890	10185805
Dibenzofuran	TX	5905	10185805
Dichlone	TX	7430	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185805
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hydroquinone	TX	6310	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Methylphenols, total	TX	10313	10185805
Mevinphos	TX	7850	10185805
Mirex	TX	7870	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
Nitroquinoline-1-oxide	TX	6515	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-12-9

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 11/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805
Parathion, ethyl	TX	7955	10185805
p-Benzoquinone (Quinone)	TX	5620	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Safrole	TX	6685	10185805
Sulfotepp	TX	8155	10185805
Thionazin (Zinophos)	TX	8235	10185805
Toluene diisocyanate	TX	6775	10185805
tris-(2,3-Dibromopropyl) phosphate (tris-BP)	TX	8310	10185805

Method EPA 8315

Analyte	**AB**	**Analyte ID**	**Method ID**
Formaldehyde	TX	4815	10188008

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193405
Total Cyanide	TX	1635	10193405

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10196006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10173601
Diesel range organics (DRO)	TX	9369	10173601
Ethanol	TX	4750	10173601
Ethylene glycol	TX	4785	10173601
Gasoline range organics (GRO)	TX	9408	10173601
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173601
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173601
Methanol	TX	4930	10173601
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173601
n-Propanol (1-Propanol)	TX	5055	10173601

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Dinitrobenzene	TX	6155	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Dinitrobenzene	TX	6165	10185805
1,4-Naphthoquinone	TX	6420	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston

Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056

Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

1,4-Phenylenediamine	TX	6630	10185805
1-Chloronaphthalene	TX	5790	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Diaminotoluene	TX	5880	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethoxybenzidine	TX	6100	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston

Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056

Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

4,4'-Methylenebis(2-chloroaniline)	TX	6365	10185805
4,4'-Methylenebis(n,n-dimethylaniline)	TX	6370	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-1,3-phenylenediamine	TX	5850	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aminoazobenzene	TX	5535	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aramite	TX	5560	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Azobenzene	TX	5562	10185805
Benzenethiol (Thiophenol)	TX	6750	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Captan	TX	7190	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenz(a,j) acridine	TX	5900	10185805
Dibenzo(a,e) pyrene	TX	5890	10185805
Dibenzofuran	TX	5905	10185805
Dichlone	TX	7430	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185805
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston

Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056

Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hydroquinone	TX	6310	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Methylphenols, total	TX	10313	10185805
Mevinphos	TX	7850	10185805
Mirex	TX	7870	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
Nitroquinoline-1-oxide	TX	6515	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston
Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056
Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805
Parathion, ethyl	TX	7955	10185805
p-Benzoquinone (Quinone)	TX	5620	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Safrole	TX	6685	10185805
Sulfotepp	TX	8155	10185805
Thionazin (Zinophos)	TX	8235	10185805
Toluene diisocyanate	TX	6775	10185805
tris-(2,3-Dibromopropyl) phosphate (tris-BP)	TX	8310	10185805

Method EPA 8315

Analyte	**AB**	**Analyte ID**	**Method ID**
Formaldehyde	TX	4815	10188008

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193405
Total Cyanide	TX	1635	10193405

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10196006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704223-13-10

TestAmerica Laboratories, Inc. - Houston

Expiration Date: 10/31/2013

6310 Rothway Drive
Houston, TX 77040-5056

Issue Date: 5/13/2013

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 9038

Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9050

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198808

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9066

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10200609

Method EPA 9071

Analyte	AB	Analyte ID	Method ID

ATTACHMENT 2

LABORATORY PACKAGE ADDENDA

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Method Blank - Batch: 600-105694

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105694/1-A	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/08/2013 2120	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Chromium	0.0506	U	0.0506	0.500
Lead	0.105	U	0.105	0.500
Cadmium	0.0256	U	0.0256	0.250
Barium	0.05000	J	0.0300	1.00
Silver	0.119	U	0.119	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-105694

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/08/2013 2122	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	119	123.2	103.5	81.6 - 117.6	
Lead	76.9	79.80	103.8	81.3 - 118.7	
Cadmium	103	108.9	105.7	83.6 - 115.5	
Barium	213	204.8	96.2	83.1 - 116.9	
Silver	42.3	42.96	101.6	66.4 - 133.8	
Arsenic	168	175.2	104.3	83.3 - 117.3	
Selenium	126	134.3	106.6	80.2 - 120.6	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Post Digestion Spike - Batch: 600-105694

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72462-B-28-A PDS	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	05/08/2013 2248	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chromium	7.73		54.5	55.45	88	75 - 125	
Lead	7.48		54.5	69.63	114	75 - 125	
Cadmium	0.0280	U	27.3	25.74	94	75 - 125	
Barium	87.8		54.5	150.3	115	75 - 125	
Silver	0.130	U	27.3	25.58	94	75 - 125	
Arsenic	2.17		54.5	52.40	92	75 - 125	
Selenium	0.282	U	54.5	50.89	93	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105694

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72755-5	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/08/2013 2205			Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72755-5	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/08/2013 2207			Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	97	89	75 - 125	10	20		
Lead	66	396	75 - 125	10	20	4	4
Cadmium	172	199	75 - 125	4	20	N	N
Barium	79	104	75 - 125	5	20		
Silver	113	111	75 - 125	6	20		
Arsenic	113	111	75 - 125	4	20		
Selenium	108	107	75 - 125	5	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105694

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72755-5	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/08/2013 2205		
Prep Date:	05/08/2013 1357		
Leach Date:	N/A		

MSD Lab Sample ID:	600-72755-5
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/08/2013 2207
Prep Date:	05/08/2013 1357
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chromium	9.48		53.4	51.4	61.19		55.24	
Lead	1580		53.4	51.4	1617	4	1785	4
Cadmium	65.2		26.7	25.7	111.2	N	116.2	N
Barium	173		53.4	51.4	215.8		226.9	
Silver	0.144	J	26.7	25.7	30.42		28.71	
Arsenic	14.7		53.4	51.4	74.98		72.00	
Selenium	4.21		53.4	51.4	61.94		59.10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Duplicate - Batch: 600-105694

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72755-5	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	05/08/2013 2155	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	9.48		272.6	187	20	F
Lead	1580		1117	34	20	F
Cadmium	65.2		60.69	7	20	
Barium	173		121.9	35	20	F
Silver	0.144	J	0.1449	0.7	20	J
Arsenic	14.7		19.01	25	20	F
Selenium	4.21		4.021	5	20	

Serial Dilution - Batch: 600-105694

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72462-B-28-A SD ^5	Analysis Batch:	600-105731	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105694	Lab File ID:	C050813.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	05/08/2013 2250	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1357				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Chromium	7.73		7.742	0.14	10	
Lead	7.48		8.805	18	10	*
Cadmium	0.0280	U	0.140	NC	10	U
Barium	87.8		98.41	12	10	*
Silver	0.130	U	0.648	NC	10	U
Arsenic	2.17		2.317	NC	10	J
Selenium	0.282	U	1.41	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Method Blank - Batch: 600-105718

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105718/1-A	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/09/2013 1144	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Lead	0.105	U	0.105	0.500
Cadmium	0.0256	U	0.0256	0.250
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-105718

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/09/2013 1147	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	76.9	72.03	93.7	81.3 - 118.7	
Cadmium	103	99.14	96.3	83.6 - 115.5	
Arsenic	168	161.2	96.0	83.3 - 117.3	
Selenium	126	120.7	95.8	80.2 - 120.6	

Post Digestion Spike - Batch: 600-105718

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72755-1	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/09/2013 1227	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	1790	53.6	1789	NC	75 - 125	
Cadmium	72.1	26.8	99.35	102	75 - 125	
Arsenic	17.5	53.6	72.85	103	75 - 125	
Selenium	4.77	53.6	59.55	102	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105718

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72755-1	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	05/09/2013 1154			Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72755-1	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	05/09/2013 1157			Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	-3	49	75 - 125	17	20	N	N
Lead	-875	464	75 - 125	41	20	4	4 N
Arsenic	98	106	75 - 125	1	20		
Selenium	96	101	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105718

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72755-1	Units: mg/Kg	MSD Lab Sample ID: 600-72755-1
Client Matrix:	Solid		Client Matrix: Solid
Dilution:	1.0		Dilution: 1.0
Analysis Date:	05/09/2013 1154		Analysis Date: 05/09/2013 1157
Prep Date:	05/08/2013 1625		Prep Date: 05/08/2013 1625
Leach Date:	N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	72.1	26.4	24.7	71.39	N	84.28	N
Lead	1790	52.8	49.4	1328	4	2018	4 N
Arsenic	17.5	52.8	49.4	69.39		69.86	
Selenium	4.77	52.8	49.4	55.35		54.65	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Duplicate - Batch: 600-105718

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72755-1	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/09/2013 1151	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	1790	1571	13	20	
Cadmium	72.1	56.95	23	20	F
Arsenic	17.5	14.81	16	20	
Selenium	4.77	3.993	18	20	

Serial Dilution - Batch: 600-105718

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72755-1	Analysis Batch:	600-105763	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105718	Lab File ID:	A050913.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/09/2013 1230	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/08/2013 1625				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Lead	1790	1737	2.9	10	
Cadmium	72.1	70.04	2.9	10	
Arsenic	17.5	16.85	3.6	10	
Selenium	4.77	4.828	NC	10	J

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Method Blank - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 600-105732/7-A	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/09/2013 0848	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Mercury	0.00336	U	0.00336	0.0469

LCS-Certified Reference Material - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/09/2013 0850	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	25.3	23.01	90.9	71.5 - 128.1	

Matrix Spike - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72476-C-28-E MS	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.66 g
Analysis Date:	05/09/2013 0855	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00679	J	0.251	0.2743	106	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Duplicate - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72476-C-28-D DU	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/09/2013 0854	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.00679	J	0.00396	NC	20	U

Serial Dilution - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72476-C-28-C SD ^5	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/09/2013 0918	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Mercury	0.00679	J	0.0198	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Method Blank - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 600-105785/1-A	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/10/2013 1153	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Chromium	0.0506	U	0.0506	0.500
Lead	0.105	U	0.105	0.500
Cadmium	0.0256	U	0.0256	0.250
Barium	0.05500	J	0.0300	1.00
Silver	0.119	U	0.119	0.500
Arsenic	0.218	U	0.218	1.00
Selenium	0.259	U	0.259	2.00

LCS-Certified Reference Material - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	05/10/2013 1156	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	119	119.5	100.4	81.6 - 117.6	
Lead	76.9	77.67	101.0	81.3 - 118.7	
Cadmium	103	104.0	101.0	83.6 - 115.5	
Barium	213	202.4	95.0	83.1 - 116.9	
Silver	42.3	43.11	101.9	66.4 - 133.8	
Arsenic	168	169.8	101.1	83.3 - 117.3	
Selenium	126	125.3	99.4	80.2 - 120.6	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Post Digestion Spike - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/10/2013 1305	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chromium	22.4		66.8	80.39	87	75 - 125	
Lead	114		66.8	181.0	101	75 - 125	
Cadmium	2.31		33.4	34.19	95	75 - 125	
Barium	127		66.8	191.2	96	75 - 125	
Silver	0.159	U	33.4	34.66	104	75 - 125	
Arsenic	12.5		66.8	77.45	97	75 - 125	
Selenium	0.722	J	66.8	63.87	94	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105785

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72840-1	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	05/10/2013 1203			Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72840-1	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	05/10/2013 1205			Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	52900	3759	75 - 125	103	20	4	4 N
Cadmium	102	104	75 - 125	4	20		
Arsenic	116	146	75 - 125	19	20		N
Selenium	98	97	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105785

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/10/2013 1257			Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

MSD Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	05/10/2013 1300			Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium	95	90	75 - 125	5	20		
Lead	136	122	75 - 125	6	20	N	
Cadmium	95	93	75 - 125	4	20		
Barium	82	81	75 - 125	1	20		
Silver	103	100	75 - 125	5	20		
Arsenic	94	91	75 - 125	4	20		
Selenium	91	87	75 - 125	6	20		

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105785

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72840-1	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/10/2013 1203		
Prep Date:	05/09/2013 1332		
Leach Date:	N/A		

MSD Lab Sample ID:	600-72840-1
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/10/2013 1205
Prep Date:	05/09/2013 1332
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Lead	10400		54.2	55.2	39070	4	12490	4 N
Cadmium	2.41		27.1	27.6	29.94		31.11	
Arsenic	25.8		54.2	55.2	88.38		106.6	N
Selenium	0.478	J	54.2	55.2	53.51		53.92	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 600-105785

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	600-72840-22	Units: mg/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/10/2013 1257		
Prep Date:	05/09/2013 1332		
Leach Date:	N/A		

MSD Lab Sample ID:	600-72840-22
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/10/2013 1300
Prep Date:	05/09/2013 1332
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chromium	22.4		64.3	63.0	83.28		79.18	
Lead	114		64.3	63.0	201.2	N	190.3	
Cadmium	2.31		32.1	31.5	32.83		31.64	
Barium	127		64.3	63.0	180.0		178.6	
Silver	0.159	U	32.1	31.5	33.18		31.52	
Arsenic	12.5		64.3	63.0	73.12		69.92	
Selenium	0.722	J	64.3	63.0	59.09		55.63	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Duplicate - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72840-1	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	05/10/2013 1200	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Lead	10400		46960	127	20	F
Cadmium	2.41		4.602	63	20	F
Arsenic	25.8		64.59	86	20	F
Selenium	0.478	J	0.9033	61	20	J

Duplicate - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/10/2013 1247	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chromium	22.4		23.07	3	20	
Lead	114		124.5	9	20	
Cadmium	2.31		2.474	7	20	
Barium	127		119.5	6	20	
Silver	0.159	U	0.153	NC	20	U
Arsenic	12.5		12.28	1	20	
Selenium	0.722	J	0.7325	1	20	J

Serial Dilution - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/10/2013 1307	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Chromium	22.4	25.29	13	10	*
Lead	114	114.9	1.1	10	
Cadmium	2.31	2.439	5.5	10	
Barium	127	133.8	5.1	10	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Serial Dilution - Batch: 600-105785

Method: 6010B
Preparation: 3050B

Lab Sample ID:	600-72840-22	Analysis Batch:	600-105888	Instrument ID:	Thermo6500
Client Matrix:	Solid	Prep Batch:	600-105785	Lab File ID:	A051013.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/10/2013 1307	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1332				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.159	U	0.794	NC	10	U
Arsenic	12.5		13.23	NC	10	
Selenium	0.722	J	1.73	NC	10	U

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Method Blank - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 600-105732/7-A	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/09/2013 0848	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Mercury	0.00336	U	0.00336	0.0469

LCS-Certified Reference Material - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/09/2013 0850	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	25.3	23.01	90.9	71.5 - 128.1	

Matrix Spike - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72840-23	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/09/2013 1238	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1050				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00501	U	0.328	0.3899	119	75 - 125	

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Serial Dilution - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72476-C-28-C SD ^5	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/09/2013 0918	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 0705				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Mercury	0.00679	J	0.0198	NC	10	U

Duplicate - Batch: 600-105732

Method: 7471A
Preparation: 7471A

Lab Sample ID:	600-72840-23	Analysis Batch:	600-105744	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-105732	Lab File ID:	fs050913.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	05/09/2013 1236	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/09/2013 1050				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.00501	U	0.00485	NC	20	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72755-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 4:57:17 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 22
Method Summary 23
Sample Summary 24
Client Sample Results 25
Definitions/Glossary 39
Surrogate Summary 40
QC Sample Results 41
Default Detection Limits 55
QC Association Summary 58
Lab Chronicle 62
Certification Summary 67
Chain of Custody 68
Receipt Checklists 70

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72755-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/29/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105694, 105718- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105694, 105718- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105694, 105718- ICP

ER #[1]	DESCRIPTION
1	Barium was detected above the MDL, but below the MQL in the prep blank for batch 105694. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The cadmium recoveries in samples 72755-1 MS and MSD as well as 72755-5 MS and MSD were below acceptance limits due to matrix interference. The lead recoveries in samples 72755-1 MS and MSD as well as 72755-5 MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by acceptable LCS recoveries.
3	The lead RPD between samples 72755-1 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
4	The arsenic, barium, chromium and lead RPDs between samples 72755-5 and 72755-5 MD and the cadmium RPD between samples 72755-1 and 72755-1 MD were above acceptance limits due to the non-homogenous nature of the samples.
5	The lead SDLs were elevated in samples 72755-2, 3, 18 and 21 due to the dilutions necessary to bring this analyte to within linear dynamic range.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/16/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72755
Reviewer Name: YX	Prep Batch Number: 600-105753-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?		X			3

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72755
Reviewer Name: YX	Prep Batch Number: 600-105753-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72755
Reviewer Name: YX	Prep Batch Number: 600-105753-VOA

ER #[1]	DESCRIPTION
1	Chloroform was detected above the MDL, but below the MQL in the method blank for batch 600-105753. The level of detection is below the recommended reporting limit and the appropriate flags have been applied to the report
2	The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision associated with batch 600-105753 were outside control limits. Matrix interference is suspected.
3	The laboratory is not NELAC certified for Bromomethane. Recertification is in progress.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72755
Reviewer Name: JOH	Prep Batch Number(s): 600-105736 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72755
Reviewer Name: JOH	Prep Batch Number(s): 600-105736 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72755
Reviewer Name: JOH	Prep Batch Number(s): 600-105736 - SV

ER #[1]	DESCRIPTION
1	The matrix spike / matrix spike duplicate (MS/MSD) recoveries associated with batch 105736 were outside control limits. Matrix interference is suspected. The associated laboratory control sample (LCS) met acceptance criteria.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 2/14/2013
Date Prepared: 2/14/2013
TALs Batches: 99613
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Chloromethane	1.66	5	3.47	10
Vinyl Chloride	0.9	5	1.06	10
Bromomethane	1.78	5	0.922	10
Chloroethane	1.4	5	0	10
1,1-Dichloroethene	1.22	5	3.23	5
trans-1,2-Dichloroethene	1.14	5	3.72	5
Acetone	1.66	5	5.94	10
Methylene Chloride	2.19	5	4.55	10
Methyl tert-butyl ether	1.83	5	3.35	5
cis-1,2-Dichloroethene	0.83	5	4.54	5
2-Butanone (MEK)	1.9	5	11.1	10
Carbon Tetrachloride	1.13	5	3.43	5
Benzene	0.63	5	4.33	5
1,2-Dichloroethane	0.9	5	3.98	5
Trichloroethene	1.4	5	4.19	5
1,1,1-Trichloroethane	0.74	5	3.43	5
1,1-Dichloroethane	0.87	5	2.79	5
1,2-Dichloropropane	0.71	5	4.58	5
1,4-Dioxane	62.07	12.5	522	500
cis-1,3-Dichloropropene	0.54	5	4.5	5
4-Methyl-2-pentanone	1.47	5	10.3	10
Toluene	1.38	5	4.35	5
trans-1,3-Dichloropropene	0.58	5	3.78	5
1,1,2-Trichloroethane	0.73	5	4.88	5
Tetrachloroethene	1.4	5	3.84	5
2-Hexanone	1.01	5	9.16	10
Chlorodibromomethane	0.94	5	3.95	5
Chlorobenzene	0.96	5	4.64	5
Ethylbenzene	1.02	5	4.51	5
o-Xylene	1.13	5	4.64	5
Xylenes (total)	1.13	5	13.8	5
Styrene	0.71	5	4.45	5
Bromoform	1.37	5	4.54	5
1,1,2,2-Tetrachloroethane	0.87	5	5.75	5
1,3,5-Trimethylbenzene	1.6	5	3.92	5
1,2,4-Trimethylbenzene	0.92	5	4.18	5
sec-Butylbenzene	0.7	5	4.1	5
n-Butylbenzene	0.58	5	4.09	5
Naphthalene	2.37	5	33.05	10

Chloroform	5.74	5	3.75	5
1,2 Dichloroethene, Total	1.9	5	8.27	5
Carbon Disulfide	0.55	5	6.4	5
Dichlorobromomethane	0.66	5	4.3	5
m-Xylene & P-Xylene	1.52	5	9.19	10

Quality Control Report

Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	1/7/2013
Date Prepared:	1/7/2013
Lab Sample ID:	600-96737/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	83.5	26.97	16.67
N-Nitrosodimethylamine	4.19	8.35	7.960	16.67
bis (2-Chloroisopropyl) ether	8.84	8.35	8.390	16.67
Aniline	2.98	83.5	4.66	16.67
Phenol	4.24	8.35	5.661	16.67
bis(2-Chloroethyl)ether	1.65	8.35	8.591	16.67
2-Chlorophenol	1.97	8.35	6.460	16.67
1,3-Dichlorobenzene	1.54	8.35	7.825	16.67
1,4-Dichlorobenzene	2.25	8.35	10.422	16.67
1,2-Dichlorobenzene	3.02	8.35	10.622	16.67
Benzyl alcohol	5.83	8.35	5.461	16.67
2-Methylphenol (o-cresol)	3.23	8.35	6.860	16.67
3&4 Methylphenol (m&p-cresols)	2.79	8.35	3.296	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	8.857	16.67
Hexachloroethane	2.31	8.35	9.423	16.67
Dibenzo(a,h)anthracene	3.63	8.35	31.102	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	31.068	16.67
Nitrobenzene	2.96	8.35	8.857	16.67
Isophorone	1	8.35	7.425	16.67
2-Nitrophenol	3.86	8.35	16.150	16.67
Benzoic acid	32.76	167	323.34	16.67
2,4-Dimethylphenol	8.58	8.35	3.663	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	7.925	16.67
2,4-Dichlorophenol	3.87	8.35	4.762	16.67
1,2,4-Trichlorobenzene	2.1	8.35	10.589	16.67
Naphthalene	1.35	8.35	7.725	16.67
Benzo(a)pyrene	1.61	8.35	11.288	16.67
Hexachlorobutadiene	1.92	8.35	9.723	16.67
4-Chloro-3-methylphenol	15.58	8.35	7.659	16.67
2-Methylnaphthalene	2.74	8.35	7.792	16.67
1-Methylnaphthalene	1.57	8.35	9.190	16.67
Benzo(k)fluoranthene	1.49	8.35	8.391	16.67
Hexachlorocyclopentadiene	4.61	8.35	10.656	16.67
2,4,6-Trichlorophenol	2.68	8.35	11.954	16.67
2,4,5-Trichlorophenol	10.01	8.35	15.417	16.67
2-Chloronaphthalene	1.21	8.35	7.359	16.67
2-Nitroaniline	4.89	8.35	23.576	16.67
1,4-Dinitrobenzene	16.67	8.35	30.103	16.67
1,3-Dinitrobenzene	2.96	8.35	23.576	16.67
1,2-Dinitrobenzene	16.67	8.35	17.082	16.67

Dimethylphthalate	4.89	8.35	7.992	16.67
Acenaphthylene	1	8.35	7.026	16.67
2,6-Dinitrotoluene	2.95	8.35	16.084	16.67
Benzo(b)fluoranthene	1.72	8.35	20.013	16.67
Acenaphthene	1.44	8.35	8.158	16.67
Di-n-octylphthalate	1.9	8.35	63.930	16.67
4-Nitrophenol	5.08	83.5	81.25	16.67
Dibenzofuran	1.78	8.35	8.025	16.67
2,4-Dinitrotoluene	3.61	8.35	14.552	16.67
2,3,4,6-Tetrachlorophenol	16.67	8.35	14.452	16.67
2,3,5,6-Tetrachlorophenol	16.67	8.35	13.486	16.67
Diethylphthalate	8.43	8.35	19.147	16.67
4-Chlorophenyl-phenylether	1.8	8.35	9.091	16.67
Fluorene	2.36	8.35	9.057	16.67
4-Nitroaniline	11.15	16.7	35.630	16.67
Chrysene	1.02	8.35	9.257	16.67
4,6-Dinitro-2-methylphenol	4.98	83.5	39.96	16.67
N-Nitrosodiphenylamine	1.98	83.5	5.33	16.67
Diphenylamine	1.94	83.5	5.33	16.67
1,2-Diphenylhydrazine	1.62	8.35	6.093	16.67
Azobenzene	1.85	8.35	6.626	16.67
4-Bromophenyl-phenylether	2.84	8.35	8.691	16.67
Hexachlorobenzene	1.52	16.7	16.680	16.67
Pentachlorophenol	4	8.35	55.944	16.67
Phenanthrene	4.95	8.35	8.558	16.67
Anthracene	1.28	8.35	6.826	16.67
Carbazole	3.12	8.35	6.027	16.67
Di-n-butylphthalate	2.59	8.35	19.580	16.67
Fluoranthene	3.11	8.35	7.958	16.67
Benzidine	9.02	16.7		16.67
Pyrene	1.83	8.35	8.857	16.67
Butylbenzylphthalate	6.19	8.35	28.338	16.67
3,3'-Dichlorobenzidine	10.16	8.35		16.67
Benzo(a)anthracene	1.38	8.35	9.257	16.67
bis(2-Ethylhexyl)phthalate	5.37	8.35	34.632	16.67
Benzo(g,h,i)perylene	5.07	8.35	15.318	16.67
4-Chloroaniline	5.82	8.35	2.630	16.67
3-Nitroaniline	7.15	8.35	19.913	16.67
2,4-Dinitrophenol	16.67	8.35		16.67

Detection Check Standard

Matrix:	Soil
Method:	7471
Preparation:	7471p
Date Analyzed:	2/14/2013
Date Prepared:	2/13/2013
Instrument:	FIMS100
TALS Batches:	99546, 99447p
Prep/Reagent Factor =	83.33
Units:	ug/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Mercury	3.58	8.33	8.75	50

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72755-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72755-1

Comments
The report was revised on 06/18/13 to report MTBE in the VOA analysis.

Receipt
The samples were received on 5/8/2013 9:31 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72755-1	2013-RMSB-5 (1.3-2)	Solid	05/07/13 10:18	05/08/13 09:31
600-72755-2	2013-RMSB-5 (2-5)	Solid	05/07/13 10:19	05/08/13 09:31
600-72755-3	2013-RMSB-5 (5-7)	Solid	05/07/13 10:20	05/08/13 09:31
600-72755-4	2013-RMSB-5 (9)	Solid	05/07/13 10:21	05/08/13 09:31
600-72755-5	DUP-13	Solid	05/07/13 00:00	05/08/13 09:31
600-72755-6	2013-RMSB-9 (1.3-2)	Solid	05/07/13 11:04	05/08/13 09:31
600-72755-7	2013-RMSB-9 (2-2.5)	Solid	05/07/13 11:05	05/08/13 09:31
600-72755-8	2013-RMSB-9 (5-7)	Solid	05/07/13 11:06	05/08/13 09:31
600-72755-9	2013-RMSB-9 (8)	Solid	05/07/13 11:07	05/08/13 09:31
600-72755-10	2013-RMSB-6 (1.3-2)	Solid	05/07/13 11:51	05/08/13 09:31
600-72755-11	2013-RMSB-6 (2-2.5)	Solid	05/07/13 11:52	05/08/13 09:31
600-72755-12	2013-RMSB-6 (5-7)	Solid	05/07/13 11:53	05/08/13 09:31
600-72755-13	2013-RMSB-6 (7.5)	Solid	05/07/13 11:54	05/08/13 09:31
600-72755-14	DUP-14	Solid	05/07/13 00:00	05/08/13 09:31
600-72755-15	2013-RMSB-4 (0-2)	Solid	05/07/13 12:43	05/08/13 09:31
600-72755-16	2013-RMSB-4 (2-5)	Solid	05/07/13 12:44	05/08/13 09:31
600-72755-17	2013-RMSB-4 (5-6)	Solid	05/07/13 12:45	05/08/13 09:31
600-72755-18	2013-WMU14-1 (0.9-2)	Solid	05/07/13 14:54	05/08/13 09:31
600-72755-21	DUP-15	Solid	05/07/13 00:00	05/08/13 09:31

Client Sample ID: 2013-RMSB-5 (1.3-2)

Lab Sample ID: 600-72755-1

Date Collected: 05/07/13 10:18
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 93.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	72.1		0.268	0.0275	mg/Kg	☼	05/08/13 16:25	05/09/13 11:49	1
Lead	1790		0.536	0.112	mg/Kg	☼	05/08/13 16:25	05/09/13 11:49	1
Arsenic	17.5		1.07	0.234	mg/Kg	☼	05/08/13 16:25	05/09/13 11:49	1
Selenium	4.77		2.15	0.278	mg/Kg	☼	05/08/13 16:25	05/09/13 11:49	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	93		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-5 (2-5)

Lab Sample ID: 600-72755-2

Date Collected: 05/07/13 10:19
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 79.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	23.9		0.299	0.0306	mg/Kg	☼	05/08/13 13:57	05/08/13 21:45	1
Arsenic	43.3		1.20	0.260	mg/Kg	☼	05/08/13 13:57	05/08/13 21:45	1
Selenium	0.544	J	2.39	0.309	mg/Kg	☼	05/08/13 13:57	05/08/13 21:45	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4330		5.98	1.25	mg/Kg	☼	05/08/13 13:57	05/09/13 09:32	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	80		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-5 (5-7)

Lab Sample ID: 600-72755-3

Date Collected: 05/07/13 10:20
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 78.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	60.7		0.306	0.0314	mg/Kg	☼	05/08/13 13:57	05/08/13 21:47	1
Arsenic	44.5		1.22	0.267	mg/Kg	☼	05/08/13 13:57	05/08/13 21:47	1
Selenium	2.99		2.45	0.317	mg/Kg	☼	05/08/13 13:57	05/08/13 21:47	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10200		6.12	1.28	mg/Kg	☼	05/08/13 13:57	05/09/13 09:35	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	79		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-5 (9)
Lab Sample ID: 600-72755-4

Date Collected: 05/07/13 10:21
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 75.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.07		0.311	0.0319	mg/Kg	☼	05/08/13 13:57	05/08/13 21:50	1
Lead	36.8		0.621	0.130	mg/Kg	☼	05/08/13 13:57	05/08/13 21:50	1
Arsenic	11.5		1.24	0.271	mg/Kg	☼	05/08/13 13:57	05/08/13 21:50	1
Selenium	0.833	J	2.49	0.322	mg/Kg	☼	05/08/13 13:57	05/08/13 21:50	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	75		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: DUP-13
Lab Sample ID: 600-72755-5

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 93.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	65.2		0.257	0.0264	mg/Kg	☼	05/08/13 13:57	05/08/13 21:52	1
Lead	1580		0.514	0.108	mg/Kg	☼	05/08/13 13:57	05/08/13 21:52	1
Arsenic	14.7		1.03	0.224	mg/Kg	☼	05/08/13 13:57	05/08/13 21:52	1
Selenium	4.21		2.06	0.266	mg/Kg	☼	05/08/13 13:57	05/08/13 21:52	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	94		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-9 (1.3-2)
Lab Sample ID: 600-72755-6

Date Collected: 05/07/13 11:04
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 85.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	4.05		0.281	0.0288	mg/Kg	☼	05/08/13 13:57	05/08/13 22:10	1
Lead	1210		0.562	0.118	mg/Kg	☼	05/08/13 13:57	05/08/13 22:10	1
Arsenic	6.62		1.12	0.245	mg/Kg	☼	05/08/13 13:57	05/08/13 22:10	1
Selenium	0.467	J	2.25	0.291	mg/Kg	☼	05/08/13 13:57	05/08/13 22:10	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	86		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-9 (2-2.5)
Lab Sample ID: 600-72755-7

Date Collected: 05/07/13 11:05
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.402		0.292	0.0299	mg/Kg	☼	05/08/13 13:57	05/08/13 22:12	1
Lead	68.5		0.583	0.122	mg/Kg	☼	05/08/13 13:57	05/08/13 22:12	1
Arsenic	4.79		1.17	0.254	mg/Kg	☼	05/08/13 13:57	05/08/13 22:12	1

Client Sample ID: 2013-RMSB-9 (2-2.5)
Lab Sample ID: 600-72755-7

Date Collected: 05/07/13 11:05
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.302	U	2.33	0.302	mg/Kg	☼	05/08/13 13:57	05/08/13 22:12	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	85		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-9 (5-7)
Lab Sample ID: 600-72755-8

Date Collected: 05/07/13 11:06
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.449		0.299	0.0307	mg/Kg	☼	05/08/13 13:57	05/08/13 22:14	1
Lead	50.1		0.598	0.125	mg/Kg	☼	05/08/13 13:57	05/08/13 22:14	1
Arsenic	12.7		1.20	0.261	mg/Kg	☼	05/08/13 13:57	05/08/13 22:14	1
Selenium	0.754	J	2.39	0.310	mg/Kg	☼	05/08/13 13:57	05/08/13 22:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	77		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-9 (8)
Lab Sample ID: 600-72755-9

Date Collected: 05/07/13 11:07
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.435		0.315	0.0323	mg/Kg	☼	05/08/13 13:57	05/08/13 22:17	1
Lead	16.7		0.631	0.132	mg/Kg	☼	05/08/13 13:57	05/08/13 22:17	1
Arsenic	12.3		1.26	0.275	mg/Kg	☼	05/08/13 13:57	05/08/13 22:17	1
Selenium	0.751	J	2.52	0.327	mg/Kg	☼	05/08/13 13:57	05/08/13 22:17	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	76		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-6 (1.3-2)
Lab Sample ID: 600-72755-10

Date Collected: 05/07/13 11:51
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 82.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.949		0.289	0.0297	mg/Kg	☼	05/08/13 13:57	05/08/13 22:19	1
Lead	615		0.579	0.121	mg/Kg	☼	05/08/13 13:57	05/08/13 22:19	1
Arsenic	8.60		1.16	0.252	mg/Kg	☼	05/08/13 13:57	05/08/13 22:19	1
Selenium	0.318	J	2.32	0.300	mg/Kg	☼	05/08/13 13:57	05/08/13 22:19	1

Client Sample ID: 2013-RMSB-6 (1.3-2)

Lab Sample ID: 600-72755-10
Date Collected: 05/07/13 11:51
Matrix: Solid
Date Received: 05/08/13 09:31

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	82		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-6 (2-2.5)

Lab Sample ID: 600-72755-11
Date Collected: 05/07/13 11:52
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 81.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0522	J	0.290	0.0297	mg/Kg	☼	05/08/13 13:57	05/08/13 22:22	1
Lead	16.6		0.580	0.122	mg/Kg	☼	05/08/13 13:57	05/08/13 22:22	1
Arsenic	5.15		1.16	0.253	mg/Kg	☼	05/08/13 13:57	05/08/13 22:22	1
Selenium	0.300	U	2.32	0.300	mg/Kg	☼	05/08/13 13:57	05/08/13 22:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	81		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-6 (5-7)

Lab Sample ID: 600-72755-12
Date Collected: 05/07/13 11:53
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 71.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.490		0.326	0.0335	mg/Kg	☼	05/08/13 13:57	05/08/13 22:24	1
Lead	25.3		0.653	0.137	mg/Kg	☼	05/08/13 13:57	05/08/13 22:24	1
Arsenic	12.1		1.31	0.285	mg/Kg	☼	05/08/13 13:57	05/08/13 22:24	1
Selenium	0.757	J	2.61	0.338	mg/Kg	☼	05/08/13 13:57	05/08/13 22:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	72		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-6 (7.5)

Lab Sample ID: 600-72755-13
Date Collected: 05/07/13 11:54
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 69.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.499		0.337	0.0346	mg/Kg	☼	05/08/13 13:57	05/08/13 22:27	1
Lead	20.9		0.675	0.141	mg/Kg	☼	05/08/13 13:57	05/08/13 22:27	1
Arsenic	11.5		1.35	0.294	mg/Kg	☼	05/08/13 13:57	05/08/13 22:27	1
Selenium	0.418	J	2.70	0.349	mg/Kg	☼	05/08/13 13:57	05/08/13 22:27	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	69		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: DUP-14

Lab Sample ID: 600-72755-14

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.878**		0.295	0.0302	mg/Kg	☼	05/08/13 13:57	05/08/13 22:36	1
Lead	**716**		0.589	0.124	mg/Kg	☼	05/08/13 13:57	05/08/13 22:36	1
Arsenic	**6.32**		1.18	0.257	mg/Kg	☼	05/08/13 13:57	05/08/13 22:36	1
Selenium	0.305	U	2.36	0.305	mg/Kg	☼	05/08/13 13:57	05/08/13 22:36	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15**		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	**85**		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-4 (0-2)

Lab Sample ID: 600-72755-15

Date Collected: 05/07/13 12:43
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00205	U	0.0124	0.00205	mg/Kg	☼		05/08/13 15:31	1
Benzene	0.000779	U	0.00619	0.000779	mg/Kg	☼		05/08/13 15:31	1
Chlorobromomethane	0.00220	U	0.00619	0.00220	mg/Kg	☼		05/08/13 15:31	1
Bromoform	0.00169	U	0.00619	0.00169	mg/Kg	☼		05/08/13 15:31	1
Bromomethane	0.00103	U	0.0124	0.00103	mg/Kg	☼		05/08/13 15:31	1
2-Butanone (MEK)	0.00235	U	0.0124	0.00235	mg/Kg	☼		05/08/13 15:31	1
Carbon disulfide	0.000680	U	0.0124	0.000680	mg/Kg	☼		05/08/13 15:31	1
Carbon tetrachloride	0.00140	U	0.00619	0.00140	mg/Kg	☼		05/08/13 15:31	1
Dibromochloromethane	0.00116	U	0.00619	0.00116	mg/Kg	☼		05/08/13 15:31	1
Chlorobenzene	0.00119	U	0.00619	0.00119	mg/Kg	☼		05/08/13 15:31	1
Chloroethane	0.00173	U	0.0124	0.00173	mg/Kg	☼		05/08/13 15:31	1
Chloroform	**0.00138**	**J b**	0.00619	0.000817	mg/Kg	☼		05/08/13 15:31	1
Chloromethane	0.00205	U	0.0124	0.00205	mg/Kg	☼		05/08/13 15:31	1
1,1-Dichloroethane	0.00108	U	0.00619	0.00108	mg/Kg	☼		05/08/13 15:31	1
1,2-Dichloroethane	0.00111	U	0.00619	0.00111	mg/Kg	☼		05/08/13 15:31	1
1,1-Dichloroethene	0.00151	U	0.00619	0.00151	mg/Kg	☼		05/08/13 15:31	1
cis-1,2-Dichloroethene	0.00103	U	0.00619	0.00103	mg/Kg	☼		05/08/13 15:31	1
trans-1,2-Dichloroethene	0.00141	U	0.00619	0.00141	mg/Kg	☼		05/08/13 15:31	1
1,2-Dichloropropane	0.000878	U	0.00619	0.000878	mg/Kg	☼		05/08/13 15:31	1
cis-1,3-Dichloropropene	0.000668	U	0.00619	0.000668	mg/Kg	☼		05/08/13 15:31	1
trans-1,3-Dichloropropene	0.000718	U	0.00619	0.000718	mg/Kg	☼		05/08/13 15:31	1
Ethylbenzene	0.00126	U	0.00619	0.00126	mg/Kg	☼		05/08/13 15:31	1
2-Hexanone	0.00125	U	0.0124	0.00125	mg/Kg	☼		05/08/13 15:31	1
Methylene Chloride	0.00271	U	0.0124	0.00271	mg/Kg	☼		05/08/13 15:31	1
4-Methyl-2-pentanone (MIBK)	0.00182	U	0.0124	0.00182	mg/Kg	☼		05/08/13 15:31	1
Styrene	0.000878	U	0.00619	0.000878	mg/Kg	☼		05/08/13 15:31	1
1,1,2,2-Tetrachloroethane	0.00108	U	0.00619	0.00108	mg/Kg	☼		05/08/13 15:31	1
Tetrachloroethene	0.000878	U	0.00619	0.000878	mg/Kg	☼		05/08/13 15:31	1
Toluene	0.00171	U	0.00619	0.00171	mg/Kg	☼		05/08/13 15:31	1
1,1,1-Trichloroethane	0.000916	U	0.00619	0.000916	mg/Kg	☼		05/08/13 15:31	1
1,1,2-Trichloroethane	0.000903	U	0.00619	0.000903	mg/Kg	☼		05/08/13 15:31	1
Trichloroethene	0.00173	U	0.00619	0.00173	mg/Kg	☼		05/08/13 15:31	1
Vinyl acetate	0.00115	U	0.00619	0.00115	mg/Kg	☼		05/08/13 15:31	1
Vinyl chloride	0.00111	U	0.0124	0.00111	mg/Kg	☼		05/08/13 15:31	1

Client Sample ID: 2013-RMSB-4 (0-2)
Date Collected: 05/07/13 12:43
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-15
Matrix: Solid
Percent Solids: 80.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.00140	U	0.00619	0.00140	mg/Kg	☼		05/08/13 15:31	1
m-Xylene & p-Xylene	0.00188	U	0.0124	0.00188	mg/Kg	☼		05/08/13 15:31	1
Xylenes, Total	0.00140	U	0.00619	0.00140	mg/Kg	☼		05/08/13 15:31	1
Bromodichloromethane	0.000817	U	0.00619	0.000817	mg/Kg	☼		05/08/13 15:31	1
1,2-Dichloroethene, Total	0.00235	U	0.0124	0.00235	mg/Kg	☼		05/08/13 15:31	1
Methyl tert-butyl ether	0.00226	U	0.00619	0.00226	mg/Kg	☼		05/08/13 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*50 - 130*		*05/08/13 15:31*	*1*
Dibromofluoromethane	*101*		*68 - 140*		*05/08/13 15:31*	*1*
4-Bromofluorobenzene	*112*		*57 - 140*		*05/08/13 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*		*05/08/13 15:31*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00178	U	0.0206	0.00178	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Acenaphthylene	0.00124	U	0.0206	0.00124	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Anthracene	0.00158	U	0.0206	0.00158	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzidine	0.0111	U	0.103	0.0111	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzo[a]anthracene	0.00171	U	0.0206	0.00171	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzo[b]fluoranthene	0.00213	U	0.0206	0.00213	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzo[k]fluoranthene	0.00184	U	0.0206	0.00184	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzo[g,h,i]perylene	0.00626	U	0.0206	0.00626	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzo[a]pyrene	0.00199	U	0.0206	0.00199	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Bis(2-chloroethoxy)methane	0.00175	U	0.0206	0.00175	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Bis(2-chloroethyl)ether	0.00204	U	0.0206	0.00204	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Bis(2-ethylhexyl) phthalate	**0.0119**	**J**	0.0824	0.00663	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Bromophenyl phenyl ether	0.00351	U	0.0206	0.00351	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Butyl benzyl phthalate	0.00765	U	0.0824	0.00765	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Chloroaniline	0.00719	U	0.0206	0.00719	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Chloronaphthalene	0.00149	U	0.0206	0.00149	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Chlorophenyl phenyl ether	0.00222	U	0.0206	0.00222	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Carbazole	0.00385	U	0.0206	0.00385	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Chrysene	0.00126	U	0.0206	0.00126	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Di-n-butyl phthalate	0.00320	U	0.0824	0.00320	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Dibenz(a,h)anthracene	0.00448	U	0.0206	0.00448	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Dibenzofuran	0.00220	U	0.0206	0.00220	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
1,2-Dichlorobenzene	0.00373	U	0.0206	0.00373	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
1,3-Dichlorobenzene	0.00190	U	0.0206	0.00190	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
1,4-Dichlorobenzene	0.00278	U	0.0206	0.00278	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
3,3'-Dichlorobenzidine	0.0126	U	0.0206	0.0126	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Diethyl phthalate	**0.0196**	**J**	0.0824	0.0104	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Dimethyl phthalate	0.00604	U	0.0824	0.00604	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4-Dinitrotoluene	0.00446	U	0.0206	0.00446	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Di-n-octyl phthalate	0.00235	U	0.0824	0.00235	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Fluoranthene	0.00384	U	0.0206	0.00384	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Fluorene	0.00292	U	0.0206	0.00292	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Hexachlorobenzene	0.00188	U	0.0206	0.00188	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Hexachlorocyclopentadiene	0.00570	U	0.0206	0.00570	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Hexachloroethane	0.00285	U	0.0206	0.00285	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1

Client Sample ID: 2013-RMSB-4 (0-2)
Date Collected: 05/07/13 12:43
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-15
Matrix: Solid
Percent Solids: 80.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.00237	U	0.0206	0.00237	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Indeno[1,2,3-cd]pyrene	0.00432	U	0.0206	0.00432	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Isophorone	0.00124	U	0.0206	0.00124	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Methylnaphthalene	0.00339	U	0.0206	0.00339	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Naphthalene	0.00167	U	0.0206	0.00167	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Nitroaniline	0.00604	U	0.0206	0.00604	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
3-Nitroaniline	0.00883	U	0.0206	0.00883	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Nitroaniline	0.0138	U	0.0206	0.0138	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Nitrobenzene	0.00366	U	0.0206	0.00366	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
N-Nitrosodimethylamine	0.00518	U	0.0206	0.00518	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
N-Nitrosodiphenylamine	0.00234	U	0.0206	0.00234	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
N-Nitrosodi-n-propylamine	0.00274	U	0.0206	0.00274	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Phenanthrene	0.00612	U	0.0206	0.00612	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Pyrene	0.00226	U	0.0206	0.00226	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
1,2,4-Trichlorobenzene	0.00259	U	0.0206	0.00259	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Benzyl alcohol	0.00720	U	0.0206	0.00720	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Chloro-3-methylphenol	0.0192	U	0.0206	0.0192	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Chlorophenol	0.00243	U	0.0206	0.00243	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Methylphenol	0.00399	U	0.0206	0.00399	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
3 & 4 Methylphenol	0.00345	U	0.0412	0.00345	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4-Dichlorophenol	0.00478	U	0.0206	0.00478	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4-Dimethylphenol	0.0106	U	0.0206	0.0106	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4,6-Dinitro-2-methylphenol	0.00615	U	0.0206	0.00615	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4-Dinitrophenol	0.00583	U	0.124	0.00583	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2-Nitrophenol	0.00481	U	0.0206	0.00481	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
4-Nitrophenol	0.00628	U	0.0206	0.00628	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Pentachlorophenol	0.00494	U	0.206	0.00494	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
Phenol	0.00524	U	0.0206	0.00524	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4,5-Trichlorophenol	0.0124	U	0.0206	0.0124	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,4,6-Trichlorophenol	0.00331	U	0.0206	0.00331	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
2,6-Dinitrotoluene	0.00364	U	0.0206	0.00364	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1
bis (2-Chloroisopropyl) ether	0.0109	U	0.0206	0.0109	mg/Kg	☼	05/09/13 08:39	05/10/13 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*89*		*56 - 123*	*05/09/13 08:39*	*05/10/13 01:08*	*1*
Nitrobenzene-d5	*90*		*34 - 118*	*05/09/13 08:39*	*05/10/13 01:08*	*1*
2-Fluorophenol	*98*		*41 - 122*	*05/09/13 08:39*	*05/10/13 01:08*	*1*
2-Fluorobiphenyl	*93*		*51 - 120*	*05/09/13 08:39*	*05/10/13 01:08*	*1*
2,4,6-Tribromophenol	*76*		*34 - 122*	*05/09/13 08:39*	*05/10/13 01:08*	*1*
Phenol-d5 (Surr)	*88*		*43 - 125*	*05/09/13 08:39*	*05/10/13 01:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**39.7**		0.589	0.124	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Chromium	**8.97**		0.589	0.0596	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Cadmium	**0.0471**	**J**	0.295	0.0302	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Barium	**121**	**b**	1.18	0.0353	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Arsenic	**4.78**		1.18	0.257	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Silver	0.140	U	0.589	0.140	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1
Selenium	0.305	U	2.36	0.305	mg/Kg	☼	05/08/13 13:57	05/08/13 22:38	1

Client Sample ID: 2013-RMSB-4 (0-2)

Lab Sample ID: 600-72755-15

Date Collected: 05/07/13 12:43
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 80.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00537	J	0.0608	0.00436	mg/Kg	☼	05/09/13 07:05	05/09/13 09:00	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	81		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-4 (2-5)

Lab Sample ID: 600-72755-16

Date Collected: 05/07/13 12:44
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00196	U	0.0118	0.00196	mg/Kg	☼		05/08/13 15:55	1
Benzene	0.000746	U	0.00592	0.000746	mg/Kg	☼		05/08/13 15:55	1
Chlorobromomethane	0.00211	U	0.00592	0.00211	mg/Kg	☼		05/08/13 15:55	1
Bromoform	0.00162	U	0.00592	0.00162	mg/Kg	☼		05/08/13 15:55	1
Bromomethane	0.000982	U	0.0118	0.000982	mg/Kg	☼		05/08/13 15:55	1
2-Butanone (MEK)	0.00225	U	0.0118	0.00225	mg/Kg	☼		05/08/13 15:55	1
Carbon disulfide	0.000651	U	0.0118	0.000651	mg/Kg	☼		05/08/13 15:55	1
Carbon tetrachloride	0.00134	U	0.00592	0.00134	mg/Kg	☼		05/08/13 15:55	1
Dibromochloromethane	0.00111	U	0.00592	0.00111	mg/Kg	☼		05/08/13 15:55	1
Chlorobenzene	0.00114	U	0.00592	0.00114	mg/Kg	☼		05/08/13 15:55	1
Chloroethane	0.00166	U	0.0118	0.00166	mg/Kg	☼		05/08/13 15:55	1
Chloroform	0.00131	J b	0.00592	0.000781	mg/Kg	☼		05/08/13 15:55	1
Chloromethane	0.00196	U	0.0118	0.00196	mg/Kg	☼		05/08/13 15:55	1
1,1-Dichloroethane	0.00103	U	0.00592	0.00103	mg/Kg	☼		05/08/13 15:55	1
1,2-Dichloroethane	0.00107	U	0.00592	0.00107	mg/Kg	☼		05/08/13 15:55	1
1,1-Dichloroethene	0.00144	U	0.00592	0.00144	mg/Kg	☼		05/08/13 15:55	1
cis-1,2-Dichloroethene	0.000982	U	0.00592	0.000982	mg/Kg	☼		05/08/13 15:55	1
trans-1,2-Dichloroethene	0.00135	U	0.00592	0.00135	mg/Kg	☼		05/08/13 15:55	1
1,2-Dichloropropane	0.000840	U	0.00592	0.000840	mg/Kg	☼		05/08/13 15:55	1
cis-1,3-Dichloropropene	0.000639	U	0.00592	0.000639	mg/Kg	☼		05/08/13 15:55	1
trans-1,3-Dichloropropene	0.000686	U	0.00592	0.000686	mg/Kg	☼		05/08/13 15:55	1
Ethylbenzene	0.00121	U	0.00592	0.00121	mg/Kg	☼		05/08/13 15:55	1
2-Hexanone	0.00120	U	0.0118	0.00120	mg/Kg	☼		05/08/13 15:55	1
Methylene Chloride	0.00434	J	0.0118	0.00259	mg/Kg	☼		05/08/13 15:55	1
4-Methyl-2-pentanone (MIBK)	0.00174	U	0.0118	0.00174	mg/Kg	☼		05/08/13 15:55	1
Styrene	0.000840	U	0.00592	0.000840	mg/Kg	☼		05/08/13 15:55	1
1,1,2,2-Tetrachloroethane	0.00103	U	0.00592	0.00103	mg/Kg	☼		05/08/13 15:55	1
Tetrachloroethene	0.000840	U	0.00592	0.000840	mg/Kg	☼		05/08/13 15:55	1
Toluene	0.00163	U	0.00592	0.00163	mg/Kg	☼		05/08/13 15:55	1
1,1,1-Trichloroethane	0.000876	U	0.00592	0.000876	mg/Kg	☼		05/08/13 15:55	1
1,1,2-Trichloroethane	0.000864	U	0.00592	0.000864	mg/Kg	☼		05/08/13 15:55	1
Trichloroethene	0.00166	U	0.00592	0.00166	mg/Kg	☼		05/08/13 15:55	1
Vinyl acetate	0.00110	U	0.00592	0.00110	mg/Kg	☼		05/08/13 15:55	1
Vinyl chloride	0.00107	U	0.0118	0.00107	mg/Kg	☼		05/08/13 15:55	1
o-Xylene	0.00134	U	0.00592	0.00134	mg/Kg	☼		05/08/13 15:55	1
m-Xylene & p-Xylene	0.00180	U	0.0118	0.00180	mg/Kg	☼		05/08/13 15:55	1
Xylenes, Total	0.00134	U	0.00592	0.00134	mg/Kg	☼		05/08/13 15:55	1

Client Sample ID: 2013-RMSB-4 (2-5)
Date Collected: 05/07/13 12:44
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-16
Matrix: Solid
Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.000781	U	0.00592	0.000781	mg/Kg	☼		05/08/13 15:55	1
1,2-Dichloroethene, Total	0.00225	U	0.0118	0.00225	mg/Kg	☼		05/08/13 15:55	1
Methyl tert-butyl ether	0.00217	U	0.00592	0.00217	mg/Kg	☼		05/08/13 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*50 - 130*		*05/08/13 15:55*	*1*
Dibromofluoromethane	*101*		*68 - 140*		*05/08/13 15:55*	*1*
4-Bromofluorobenzene	*117*		*57 - 140*		*05/08/13 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*		*05/08/13 15:55*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00169	U	0.0196	0.00169	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Acenaphthylene	0.00117	U	0.0196	0.00117	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Anthracene	0.00150	U	0.0196	0.00150	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzidine	0.0106	U	0.0979	0.0106	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzo[a]anthracene	0.00162	U	0.0196	0.00162	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzo[b]fluoranthene	0.00202	U	0.0196	0.00202	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzo[k]fluoranthene	0.00175	U	0.0196	0.00175	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzo[g,h,i]perylene	0.00596	U	0.0196	0.00596	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzo[a]pyrene	0.00189	U	0.0196	0.00189	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Bis(2-chloroethoxy)methane	0.00167	U	0.0196	0.00167	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Bis(2-chloroethyl)ether	0.00194	U	0.0196	0.00194	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Bis(2-ethylhexyl) phthalate	**0.00939**	**J**	0.0783	0.00631	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Bromophenyl phenyl ether	0.00334	U	0.0196	0.00334	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Butyl benzyl phthalate	0.00727	U	0.0783	0.00727	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Chloroaniline	0.00684	U	0.0196	0.00684	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2-Chloronaphthalene	0.00142	U	0.0196	0.00142	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Chlorophenyl phenyl ether	0.00211	U	0.0196	0.00211	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Carbazole	0.00367	U	0.0196	0.00367	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Chrysene	0.00120	U	0.0196	0.00120	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Di-n-butyl phthalate	0.00304	U	0.0783	0.00304	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Dibenz(a,h)anthracene	0.00426	U	0.0196	0.00426	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Dibenzofuran	0.00209	U	0.0196	0.00209	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
1,2-Dichlorobenzene	0.00355	U	0.0196	0.00355	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
1,3-Dichlorobenzene	0.00181	U	0.0196	0.00181	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
1,4-Dichlorobenzene	0.00264	U	0.0196	0.00264	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
3,3'-Dichlorobenzidine	0.0119	U	0.0196	0.0119	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Diethyl phthalate	**0.0259**	**J**	0.0783	0.00990	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Dimethyl phthalate	0.00574	U	0.0783	0.00574	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4-Dinitrotoluene	0.00424	U	0.0196	0.00424	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Di-n-octyl phthalate	0.00223	U	0.0783	0.00223	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Fluoranthene	0.00365	U	0.0196	0.00365	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Fluorene	0.00277	U	0.0196	0.00277	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Hexachlorobenzene	0.00179	U	0.0196	0.00179	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Hexachlorocyclopentadiene	0.00542	U	0.0196	0.00542	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Hexachloroethane	0.00271	U	0.0196	0.00271	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Hexachlorobutadiene	0.00226	U	0.0196	0.00226	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Indeno[1,2,3-cd]pyrene	0.00411	U	0.0196	0.00411	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Isophorone	0.00117	U	0.0196	0.00117	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Client Sample ID: 2013-RMSB-4 (2-5)
Date Collected: 05/07/13 12:44
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-16
Matrix: Solid
Percent Solids: 84.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.00322	U	0.0196	0.00322	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Naphthalene	0.00159	U	0.0196	0.00159	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2-Nitroaniline	0.00574	U	0.0196	0.00574	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
3-Nitroaniline	0.00840	U	0.0196	0.00840	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Nitroaniline	0.0131	U	0.0196	0.0131	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Nitrobenzene	0.00348	U	0.0196	0.00348	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
N-Nitrosodimethylamine	0.00492	U	0.0196	0.00492	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
N-Nitrosodiphenylamine	0.00222	U	0.0196	0.00222	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
N-Nitrosodi-n-propylamine	0.00261	U	0.0196	0.00261	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Phenanthrene	0.00582	U	0.0196	0.00582	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Pyrene	0.00215	U	0.0196	0.00215	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
1,2,4-Trichlorobenzene	0.00247	U	0.0196	0.00247	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Benzyl alcohol	0.00685	U	0.0196	0.00685	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Chloro-3-methylphenol	0.0183	U	0.0196	0.0183	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2-Chlorophenol	0.00231	U	0.0196	0.00231	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2-Methylphenol	0.00379	U	0.0196	0.00379	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
3 & 4 Methylphenol	0.00328	U	0.0392	0.00328	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4-Dichlorophenol	0.00455	U	0.0196	0.00455	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4-Dimethylphenol	0.0101	U	0.0196	0.0101	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4,6-Dinitro-2-methylphenol	0.00585	U	0.0196	0.00585	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4-Dinitrophenol	0.00555	U	0.117	0.00555	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2-Nitrophenol	0.00457	U	0.0196	0.00457	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
4-Nitrophenol	0.00597	U	0.0196	0.00597	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Pentachlorophenol	0.00470	U	0.196	0.00470	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
Phenol	0.00498	U	0.0196	0.00498	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4,5-Trichlorophenol	0.0118	U	0.0196	0.0118	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,4,6-Trichlorophenol	0.00315	U	0.0196	0.00315	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
2,6-Dinitrotoluene	0.00347	U	0.0196	0.00347	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1
bis (2-Chloroisopropyl) ether	0.0104	U	0.0196	0.0104	mg/Kg	☼	05/09/13 08:39	05/10/13 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*95*		*56 - 123*	*05/09/13 08:39*	*05/10/13 02:27*	*1*
Nitrobenzene-d5	*99*		*34 - 118*	*05/09/13 08:39*	*05/10/13 02:27*	*1*
2-Fluorophenol	*103*		*41 - 122*	*05/09/13 08:39*	*05/10/13 02:27*	*1*
2-Fluorobiphenyl	*102*		*51 - 120*	*05/09/13 08:39*	*05/10/13 02:27*	*1*
2,4,6-Tribromophenol	*60*		*34 - 122*	*05/09/13 08:39*	*05/10/13 02:27*	*1*
Phenol-d5 (Surr)	*94*		*43 - 125*	*05/09/13 08:39*	*05/10/13 02:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.26**		0.543	0.114	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Chromium	**8.94**		0.543	0.0549	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Cadmium	0.0278	U	0.271	0.0278	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Barium	**48.6**	**b**	1.09	0.0326	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Arsenic	**6.41**		1.09	0.237	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Silver	0.129	U	0.543	0.129	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1
Selenium	0.281	U	2.17	0.281	mg/Kg	☼	05/08/13 13:57	05/08/13 22:41	1

Client Sample ID: 2013-RMSB-4 (2-5)
Lab Sample ID: 600-72755-16

Date Collected: 05/07/13 12:44
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00385	U	0.0538	0.00385	mg/Kg	☼	05/09/13 07:05	05/09/13 09:02	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	**84**		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-RMSB-4 (5-6)
Lab Sample ID: 600-72755-17

Date Collected: 05/07/13 12:45
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.114**		0.0131	0.00217	mg/Kg	☼		05/08/13 16:19	1
Benzene	0.000823	U	0.00653	0.000823	mg/Kg	☼		05/08/13 16:19	1
Chlorobromomethane	0.00233	U	0.00653	0.00233	mg/Kg	☼		05/08/13 16:19	1
Bromoform	0.00179	U	0.00653	0.00179	mg/Kg	☼		05/08/13 16:19	1
Bromomethane	0.00108	U	0.0131	0.00108	mg/Kg	☼		05/08/13 16:19	1
2-Butanone (MEK)	**0.0175**		0.0131	0.00248	mg/Kg	☼		05/08/13 16:19	1
Carbon disulfide	0.000718	U	0.0131	0.000718	mg/Kg	☼		05/08/13 16:19	1
Carbon tetrachloride	0.00148	U	0.00653	0.00148	mg/Kg	☼		05/08/13 16:19	1
Dibromochloromethane	0.00123	U	0.00653	0.00123	mg/Kg	☼		05/08/13 16:19	1
Chlorobenzene	0.00125	U	0.00653	0.00125	mg/Kg	☼		05/08/13 16:19	1
Chloroethane	0.00183	U	0.0131	0.00183	mg/Kg	☼		05/08/13 16:19	1
Chloroform	**0.00154**	**J b**	0.00653	0.000862	mg/Kg	☼		05/08/13 16:19	1
Chloromethane	0.00217	U	0.0131	0.00217	mg/Kg	☼		05/08/13 16:19	1
1,1-Dichloroethane	0.00114	U	0.00653	0.00114	mg/Kg	☼		05/08/13 16:19	1
1,2-Dichloroethane	0.00118	U	0.00653	0.00118	mg/Kg	☼		05/08/13 16:19	1
1,1-Dichloroethene	0.00159	U	0.00653	0.00159	mg/Kg	☼		05/08/13 16:19	1
cis-1,2-Dichloroethene	0.00108	U	0.00653	0.00108	mg/Kg	☼		05/08/13 16:19	1
trans-1,2-Dichloroethene	0.00149	U	0.00653	0.00149	mg/Kg	☼		05/08/13 16:19	1
1,2-Dichloropropane	0.000927	U	0.00653	0.000927	mg/Kg	☼		05/08/13 16:19	1
cis-1,3-Dichloropropene	0.000705	U	0.00653	0.000705	mg/Kg	☼		05/08/13 16:19	1
trans-1,3-Dichloropropene	0.000758	U	0.00653	0.000758	mg/Kg	☼		05/08/13 16:19	1
Ethylbenzene	0.00133	U	0.00653	0.00133	mg/Kg	☼		05/08/13 16:19	1
2-Hexanone	0.00132	U	0.0131	0.00132	mg/Kg	☼		05/08/13 16:19	1
Methylene Chloride	**0.00504**	**J**	0.0131	0.00286	mg/Kg	☼		05/08/13 16:19	1
4-Methyl-2-pentanone (MIBK)	0.00192	U	0.0131	0.00192	mg/Kg	☼		05/08/13 16:19	1
Styrene	0.000927	U	0.00653	0.000927	mg/Kg	☼		05/08/13 16:19	1
1,1,2,2-Tetrachloroethane	0.00114	U	0.00653	0.00114	mg/Kg	☼		05/08/13 16:19	1
Tetrachloroethene	0.000927	U	0.00653	0.000927	mg/Kg	☼		05/08/13 16:19	1
Toluene	0.00180	U	0.00653	0.00180	mg/Kg	☼		05/08/13 16:19	1
1,1,1-Trichloroethane	0.000967	U	0.00653	0.000967	mg/Kg	☼		05/08/13 16:19	1
1,1,2-Trichloroethane	0.000954	U	0.00653	0.000954	mg/Kg	☼		05/08/13 16:19	1
Trichloroethene	0.00183	U	0.00653	0.00183	mg/Kg	☼		05/08/13 16:19	1
Vinyl acetate	0.00121	U	0.00653	0.00121	mg/Kg	☼		05/08/13 16:19	1
Vinyl chloride	0.00118	U	0.0131	0.00118	mg/Kg	☼		05/08/13 16:19	1
o-Xylene	0.00148	U	0.00653	0.00148	mg/Kg	☼		05/08/13 16:19	1
m-Xylene & p-Xylene	0.00199	U	0.0131	0.00199	mg/Kg	☼		05/08/13 16:19	1
Xylenes, Total	0.00148	U	0.00653	0.00148	mg/Kg	☼		05/08/13 16:19	1

Client Sample ID: 2013-RMSB-4 (5-6)
Date Collected: 05/07/13 12:45
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-17
Matrix: Solid
Percent Solids: 76.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.000862	U	0.00653	0.000862	mg/Kg	☼		05/08/13 16:19	1
1,2-Dichloroethene, Total	0.00248	U	0.0131	0.00248	mg/Kg	☼		05/08/13 16:19	1
Methyl tert-butyl ether	0.00239	U	0.00653	0.00239	mg/Kg	☼		05/08/13 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*50 - 130*		*05/08/13 16:19*	*1*
Dibromofluoromethane	*101*		*68 - 140*		*05/08/13 16:19*	*1*
4-Bromofluorobenzene	*116*		*57 - 140*		*05/08/13 16:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*		*05/08/13 16:19*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00187	U	0.0217	0.00187	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Acenaphthylene	0.00130	U	0.0217	0.00130	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Anthracene	0.00167	U	0.0217	0.00167	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzidine	0.0117	U	0.108	0.0117	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzo[a]anthracene	0.00180	U	0.0217	0.00180	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzo[b]fluoranthene	0.00224	U	0.0217	0.00224	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzo[k]fluoranthene	0.00194	U	0.0217	0.00194	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzo[g,h,i]perylene	0.00660	U	0.0217	0.00660	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzo[a]pyrene	0.00210	U	0.0217	0.00210	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Bis(2-chloroethoxy)methane	0.00185	U	0.0217	0.00185	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Bis(2-chloroethyl)ether	0.00215	U	0.0217	0.00215	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Bis(2-ethylhexyl) phthalate	**0.365**		0.0868	0.00699	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Bromophenyl phenyl ether	0.00370	U	0.0217	0.00370	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Butyl benzyl phthalate	0.00806	U	0.0868	0.00806	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Chloroaniline	0.00758	U	0.0217	0.00758	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2-Chloronaphthalene	0.00158	U	0.0217	0.00158	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Chlorophenyl phenyl ether	0.00234	U	0.0217	0.00234	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Carbazole	0.00406	U	0.0217	0.00406	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Chrysene	0.00133	U	0.0217	0.00133	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Di-n-butyl phthalate	0.00337	U	0.0868	0.00337	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Dibenz(a,h)anthracene	0.00473	U	0.0217	0.00473	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Dibenzofuran	0.00232	U	0.0217	0.00232	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
1,2-Dichlorobenzene	0.00393	U	0.0217	0.00393	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
1,3-Dichlorobenzene	0.00200	U	0.0217	0.00200	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
1,4-Dichlorobenzene	0.00293	U	0.0217	0.00293	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
3,3'-Dichlorobenzidine	0.0132	U	0.0217	0.0132	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Diethyl phthalate	**0.0158**	**J**	0.0868	0.0110	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Dimethyl phthalate	0.00637	U	0.0868	0.00637	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4-Dinitrotoluene	0.00470	U	0.0217	0.00470	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Di-n-octyl phthalate	0.00247	U	0.0868	0.00247	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Fluoranthene	0.00405	U	0.0217	0.00405	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Fluorene	0.00307	U	0.0217	0.00307	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Hexachlorobenzene	0.00198	U	0.0217	0.00198	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Hexachlorocyclopentadiene	0.00600	U	0.0217	0.00600	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Hexachloroethane	0.00301	U	0.0217	0.00301	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Hexachlorobutadiene	0.00250	U	0.0217	0.00250	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Indeno[1,2,3-cd]pyrene	0.00456	U	0.0217	0.00456	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Isophorone	0.00130	U	0.0217	0.00130	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Client Sample ID: 2013-RMSB-4 (5-6)
Date Collected: 05/07/13 12:45
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-17
Matrix: Solid
Percent Solids: 76.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**0.0114**	**J**	0.0217	0.00357	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Naphthalene	**0.00859**	**J**	0.0217	0.00176	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2-Nitroaniline	0.00637	U	0.0217	0.00637	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
3-Nitroaniline	0.00931	U	0.0217	0.00931	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Nitroaniline	0.0145	U	0.0217	0.0145	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Nitrobenzene	0.00385	U	0.0217	0.00385	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
N-Nitrosodimethylamine	0.00545	U	0.0217	0.00545	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
N-Nitrosodiphenylamine	0.00246	U	0.0217	0.00246	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
N-Nitrosodi-n-propylamine	0.00289	U	0.0217	0.00289	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Phenanthrene	0.00644	U	0.0217	0.00644	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Pyrene	0.00238	U	0.0217	0.00238	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
1,2,4-Trichlorobenzene	0.00273	U	0.0217	0.00273	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Benzyl alcohol	0.00759	U	0.0217	0.00759	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Chloro-3-methylphenol	0.0203	U	0.0217	0.0203	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2-Chlorophenol	0.00256	U	0.0217	0.00256	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2-Methylphenol	0.00421	U	0.0217	0.00421	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
3 & 4 Methylphenol	0.00363	U	0.0434	0.00363	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4-Dichlorophenol	0.00504	U	0.0217	0.00504	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4-Dimethylphenol	0.0112	U	0.0217	0.0112	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4,6-Dinitro-2-methylphenol	0.00648	U	0.0217	0.00648	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4-Dinitrophenol	0.00614	U	0.130	0.00614	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2-Nitrophenol	0.00506	U	0.0217	0.00506	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
4-Nitrophenol	0.00661	U	0.0217	0.00661	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Pentachlorophenol	0.00521	U	0.217	0.00521	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
Phenol	0.00552	U	0.0217	0.00552	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4,5-Trichlorophenol	0.0130	U	0.0217	0.0130	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,4,6-Trichlorophenol	0.00349	U	0.0217	0.00349	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
2,6-Dinitrotoluene	0.00384	U	0.0217	0.00384	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1
bis (2-Chloroisopropyl) ether	0.0115	U	0.0217	0.0115	mg/Kg	☼	05/09/13 08:39	05/10/13 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*85*		*56 - 123*	*05/09/13 08:39*	*05/10/13 02:54*	*1*
Nitrobenzene-d5	*77*		*34 - 118*	*05/09/13 08:39*	*05/10/13 02:54*	*1*
2-Fluorophenol	*79*		*41 - 122*	*05/09/13 08:39*	*05/10/13 02:54*	*1*
2-Fluorobiphenyl	*83*		*51 - 120*	*05/09/13 08:39*	*05/10/13 02:54*	*1*
2,4,6-Tribromophenol	*60*		*34 - 122*	*05/09/13 08:39*	*05/10/13 02:54*	*1*
Phenol-d5 (Surr)	*71*		*43 - 125*	*05/09/13 08:39*	*05/10/13 02:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2820**		0.610	0.128	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Chromium	**21.6**		0.610	0.0618	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Cadmium	**7.40**		0.305	0.0313	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Barium	**131**	**b**	1.22	0.0366	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Arsenic	**16.8**		1.22	0.266	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Silver	0.145	U	0.610	0.145	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1
Selenium	**2.37**	**J**	2.44	0.316	mg/Kg	☼	05/08/13 13:57	05/08/13 22:43	1

Client Sample ID: 2013-RMSB-4 (5-6)

Lab Sample ID: 600-72755-17
Date Collected: 05/07/13 12:45
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.6

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0130	J	0.0653	0.00468	mg/Kg	☼	05/09/13 07:05	05/09/13 09:03	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	77		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: 2013-WMU14-1 (0.9-2)

Lab Sample ID: 600-72755-18
Date Collected: 05/07/13 14:54
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 80.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	16.6		0.303	0.0311	mg/Kg	☼	05/08/13 13:57	05/08/13 22:45	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	95000		30.3	6.35	mg/Kg	☼	05/08/13 13:57	05/09/13 09:37	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	81		1.0	1.0	%			05/08/13 12:53	1

Client Sample ID: DUP-15

Lab Sample ID: 600-72755-21
Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 82.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	13.6		0.297	0.0305	mg/Kg	☼	05/08/13 16:25	05/09/13 11:59	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	69000		29.7	6.23	mg/Kg	☼	05/08/13 16:25	05/09/13 13:26	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			05/08/13 12:53	1
Percent Solids	82		1.0	1.0	%			05/08/13 12:53	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
N	RPD of the MS and MSD exceeds the control limits
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
b	The compound was found in the blank and sample

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-72755-15	2013-RMSB-4 (0-2)	92	101	112	90
600-72755-15 MS	2013-RMSB-4 (0-2)	102	104	126	93
600-72755-15 MSD	2013-RMSB-4 (0-2)	99	112	126	103
600-72755-16	2013-RMSB-4 (2-5)	95	101	117	89
600-72755-17	2013-RMSB-4 (5-6)	98	101	116	87
LCS 600-105753/3	Lab Control Sample	113	117	130	97
MB 600-105753/4	Method Blank	91	94	110	85

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TPH	NBZ	2FP	FBP	TBP	PHL
Lab Sample ID	Client Sample ID	(56-123)	(34-118)	(41-122)	(51-120)	(34-122)	(43-125)
600-72755-15	2013-RMSB-4 (0-2)	89	90	98	93	76	88
600-72755-15 MS	2013-RMSB-4 (0-2)	89	88	96	99	81	91
600-72755-15 MSD	2013-RMSB-4 (0-2)	83	98	98	104	79	92
600-72755-16	2013-RMSB-4 (2-5)	95	99	103	102	60	94
600-72755-17	2013-RMSB-4 (5-6)	85	77	79	83	60	71
LCS 600-105736/2-A	Lab Control Sample	99	103	103	105	94	97
MB 600-105736/1-A	Method Blank	103	85	82	86	63	81

Surrogate Legend

TPH = Terphenyl-d14
NBZ = Nitrobenzene-d5
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-105753/4
Matrix: Solid
Analysis Batch: 105753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/08/13 15:08	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/08/13 15:08	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/08/13 15:08	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/08/13 15:08	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/08/13 15:08	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/08/13 15:08	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/08/13 15:08	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/08/13 15:08	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/08/13 15:08	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/08/13 15:08	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/08/13 15:08	1
Chloroform	0.0008804	J	0.00500	0.000660	mg/Kg			05/08/13 15:08	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/08/13 15:08	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/08/13 15:08	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/08/13 15:08	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/08/13 15:08	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/08/13 15:08	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/08/13 15:08	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/08/13 15:08	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/08/13 15:08	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/08/13 15:08	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/08/13 15:08	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/08/13 15:08	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			05/08/13 15:08	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/08/13 15:08	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/08/13 15:08	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/08/13 15:08	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/08/13 15:08	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/08/13 15:08	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/08/13 15:08	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/08/13 15:08	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/08/13 15:08	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			05/08/13 15:08	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/08/13 15:08	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/08/13 15:08	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			05/08/13 15:08	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/08/13 15:08	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/08/13 15:08	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/08/13 15:08	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/08/13 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*50 - 130*		*05/08/13 15:08*	*1*
Dibromofluoromethane	*94*		*68 - 140*		*05/08/13 15:08*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*		*05/08/13 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*61 - 130*		*05/08/13 15:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-105753/3
Matrix: Solid
Analysis Batch: 105753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.05091		mg/Kg		51	44 - 136
Benzene	0.0500	0.05045		mg/Kg		101	66 - 128
Chlorobromomethane	0.0500	0.04632		mg/Kg		93	60 - 140
Bromoform	0.0500	0.04091		mg/Kg		82	50 - 130
Bromomethane	0.0500	0.04860		mg/Kg		97	28 - 164
2-Butanone (MEK)	0.100	0.06096		mg/Kg		61	42 - 186
Carbon disulfide	0.0500	0.04731		mg/Kg		95	53 - 176
Carbon tetrachloride	0.0500	0.05197		mg/Kg		104	63 - 132
Dibromochloromethane	0.0500	0.04462		mg/Kg		89	63 - 125
Chlorobenzene	0.0500	0.05561		mg/Kg		111	67 - 126
Chloroethane	0.0500	0.04658		mg/Kg		93	30 - 136
Chloroform	0.0500	0.05043		mg/Kg		101	67 - 126
Chloromethane	0.0500	0.04444		mg/Kg		89	21 - 153
1,1-Dichloroethane	0.0500	0.05090		mg/Kg		102	64 - 130
1,2-Dichloroethane	0.0500	0.04530		mg/Kg		91	61 - 135
1,1-Dichloroethene	0.0500	0.04702		mg/Kg		94	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04601		mg/Kg		92	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04875		mg/Kg		98	65 - 130
1,2-Dichloropropane	0.0500	0.05029		mg/Kg		101	71 - 122
cis-1,3-Dichloropropene	0.0500	0.04424		mg/Kg		88	66 - 129
trans-1,3-Dichloropropene	0.0500	0.04761		mg/Kg		95	66 - 134
Ethylbenzene	0.0500	0.05130		mg/Kg		103	64 - 127
2-Hexanone	0.100	0.06569		mg/Kg		66	52 - 142
Methylene Chloride	0.0500	0.05066		mg/Kg		101	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.06773		mg/Kg		68	52 - 146
Styrene	0.0500	0.05124		mg/Kg		102	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.04326		mg/Kg		87	59 - 134
Tetrachloroethene	0.0500	0.06076		mg/Kg		122	69 - 125
Toluene	0.0500	0.05139		mg/Kg		103	69 - 125
1,1,1-Trichloroethane	0.0500	0.05363		mg/Kg		107	70 - 127
1,1,2-Trichloroethane	0.0500	0.04685		mg/Kg		94	67 - 124
Trichloroethene	0.0500	0.05433		mg/Kg		109	70 - 136
Vinyl acetate	0.0500	0.03688		mg/Kg		74	54 - 136
Vinyl chloride	0.0500	0.04457		mg/Kg		89	28 - 159
o-Xylene	0.0500	0.05442		mg/Kg		109	64 - 132
m-Xylene & p-Xylene	0.100	0.1074		mg/Kg		107	65 - 128
Xylenes, Total	0.150	0.1618		mg/Kg		108	65 - 129
Bromodichloromethane	0.0500	0.04549		mg/Kg		91	68 - 121
1,2-Dichloroethene, Total	0.100	0.09476		mg/Kg		95	62 - 130
Methyl tert-butyl ether	0.0500	0.04081		mg/Kg		82	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*50 - 130*
Dibromofluoromethane	*117*		*68 - 140*
4-Bromofluorobenzene	*130*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-72755-15 MS
Matrix: Solid
Analysis Batch: 105753

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.00205	U	0.124	0.04574	N	mg/Kg	☼	37	60 - 140
Benzene	0.000779	U	0.0619	0.04386		mg/Kg	☼	71	65 - 135
Chlorobromomethane	0.00220	U	0.0619	0.04056		mg/Kg	☼	66	60 - 140
Bromoform	0.00169	U	0.0619	0.03565	N	mg/Kg	☼	58	60 - 140
Bromomethane	0.00103	U	0.0619	0.03939		mg/Kg	☼	64	60 - 140
2-Butanone (MEK)	0.00235	U	0.124	0.05006	N	mg/Kg	☼	40	60 - 140
Carbon disulfide	0.000680	U	0.0619	0.03536	N	mg/Kg	☼	57	60 - 140
Carbon tetrachloride	0.00140	U	0.0619	0.04471		mg/Kg	☼	72	60 - 140
Dibromochloromethane	0.00116	U	0.0619	0.03647	N	mg/Kg	☼	59	60 - 140
Chlorobenzene	0.00119	U	0.0619	0.04587		mg/Kg	☼	74	65 - 135
Chloroethane	0.00173	U	0.0619	0.03813		mg/Kg	☼	62	60 - 140
Chloroform	0.00138	J b	0.0619	0.04447		mg/Kg	☼	70	60 - 140
Chloromethane	0.00205	U	0.0619	0.04054		mg/Kg	☼	66	60 - 140
1,1-Dichloroethane	0.00108	U	0.0619	0.04347		mg/Kg	☼	70	60 - 140
1,2-Dichloroethane	0.00111	U	0.0619	0.03882		mg/Kg	☼	63	60 - 140
1,1-Dichloroethene	0.00151	U	0.0619	0.04126		mg/Kg	☼	67	65 - 135
cis-1,2-Dichloroethene	0.00103	U	0.0619	0.03953		mg/Kg	☼	64	60 - 140
trans-1,2-Dichloroethene	0.00141	U	0.0619	0.04236		mg/Kg	☼	68	60 - 140
1,2-Dichloropropane	0.000878	U	0.0619	0.04269		mg/Kg	☼	69	60 - 140
cis-1,3-Dichloropropene	0.000668	U	0.0619	0.03692		mg/Kg	☼	60	60 - 140
trans-1,3-Dichloropropene	0.000718	U	0.0619	0.04043		mg/Kg	☼	65	60 - 140
Ethylbenzene	0.00126	U	0.0619	0.04470		mg/Kg	☼	72	60 - 140
2-Hexanone	0.00125	U	0.124	0.05566	N	mg/Kg	☼	45	60 - 140
Methylene Chloride	0.00271	U	0.0619	0.04238		mg/Kg	☼	69	60 - 140
4-Methyl-2-pentanone (MIBK)	0.00182	U	0.124	0.05747	N	mg/Kg	☼	46	60 - 140
Styrene	0.000878	U	0.0619	0.04294		mg/Kg	☼	69	60 - 140
1,1,2,2-Tetrachloroethane	0.00108	U	0.0619	0.03490	N	mg/Kg	☼	56	60 - 140
Tetrachloroethene	0.000878	U	0.0619	0.07501		mg/Kg	☼	121	60 - 140
Toluene	0.00171	U	0.0619	0.04387		mg/Kg	☼	71	64 - 135
1,1,1-Trichloroethane	0.000916	U	0.0619	0.04588		mg/Kg	☼	74	60 - 140
1,1,2-Trichloroethane	0.000903	U	0.0619	0.03857		mg/Kg	☼	62	60 - 140
Trichloroethene	0.00173	U	0.0619	0.04722		mg/Kg	☼	76	61 - 135
Vinyl acetate	0.00115	U	0.0619	0.02155	N	mg/Kg	☼	35	60 - 140
Vinyl chloride	0.00111	U	0.0619	0.03992		mg/Kg	☼	65	60 - 140
o-Xylene	0.00140	U	0.0619	0.04699		mg/Kg	☼	76	60 - 140
m-Xylene & p-Xylene	0.00188	U	0.124	0.09279		mg/Kg	☼	75	60 - 140
Xylenes, Total	0.00140	U	0.186	0.1398		mg/Kg	☼	75	60 - 140
Bromodichloromethane	0.000817	U	0.0619	0.03771		mg/Kg	☼	61	60 - 140
1,2-Dichloroethene, Total	0.00235	U	0.124	0.08189		mg/Kg	☼	66	60 - 140
Methyl tert-butyl ether	0.00226	U	0.0619	0.03246	N	mg/Kg	☼	52	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*50 - 130*
Dibromofluoromethane	*104*		*68 - 140*
4-Bromofluorobenzene	*126*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-72755-15 MSD
Matrix: Solid
Analysis Batch: 105753

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.00205	U	0.124	0.1333	N	mg/Kg	☼	108	60 - 140	98	30
Benzene	0.000779	U	0.0619	0.04589		mg/Kg	☼	74	65 - 135	5	30
Chlorobromomethane	0.00220	U	0.0619	0.04609		mg/Kg	☼	75	60 - 140	13	30
Bromoform	0.00169	U	0.0619	0.03991		mg/Kg	☼	65	60 - 140	11	30
Bromomethane	0.00103	U	0.0619	0.04520		mg/Kg	☼	73	60 - 140	14	30
2-Butanone (MEK)	0.00235	U	0.124	0.08776	N	mg/Kg	☼	71	60 - 140	55	30
Carbon disulfide	0.000680	U	0.0619	0.03666	N	mg/Kg	☼	59	60 - 140	4	30
Carbon tetrachloride	0.00140	U	0.0619	0.04653		mg/Kg	☼	75	60 - 140	4	30
Dibromochloromethane	0.00116	U	0.0619	0.04000		mg/Kg	☼	65	60 - 140	9	30
Chlorobenzene	0.00119	U	0.0619	0.04783		mg/Kg	☼	77	65 - 135	4	30
Chloroethane	0.00173	U	0.0619	0.04453		mg/Kg	☼	72	60 - 140	15	30
Chloroform	0.00138	J b	0.0619	0.04817		mg/Kg	☼	76	60 - 140	8	30
Chloromethane	0.00205	U	0.0619	0.04420		mg/Kg	☼	71	60 - 140	9	30
1,1-Dichloroethane	0.00108	U	0.0619	0.04947		mg/Kg	☼	80	60 - 140	13	30
1,2-Dichloroethane	0.00111	U	0.0619	0.04345		mg/Kg	☼	70	60 - 140	11	30
1,1-Dichloroethene	0.00151	U	0.0619	0.04599		mg/Kg	☼	74	65 - 135	11	30
cis-1,2-Dichloroethene	0.00103	U	0.0619	0.04258		mg/Kg	☼	69	60 - 140	7	30
trans-1,2-Dichloroethene	0.00141	U	0.0619	0.04424		mg/Kg	☼	72	60 - 140	4	30
1,2-Dichloropropane	0.000878	U	0.0619	0.04448		mg/Kg	☼	72	60 - 140	4	30
cis-1,3-Dichloropropene	0.000668	U	0.0619	0.03780		mg/Kg	☼	61	60 - 140	2	30
trans-1,3-Dichloropropene	0.000718	U	0.0619	0.04151		mg/Kg	☼	67	60 - 140	3	30
Ethylbenzene	0.00126	U	0.0619	0.04291		mg/Kg	☼	69	60 - 140	4	30
2-Hexanone	0.00125	U	0.124	0.07149	N	mg/Kg	☼	58	60 - 140	25	30
Methylene Chloride	0.00271	U	0.0619	0.04703		mg/Kg	☼	76	60 - 140	10	30
4-Methyl-2-pentanone (MIBK)	0.00182	U	0.124	0.07500		mg/Kg	☼	61	60 - 140	26	30
Styrene	0.000878	U	0.0619	0.04243		mg/Kg	☼	69	60 - 140	1	30
1,1,2,2-Tetrachloroethane	0.00108	U	0.0619	0.03780		mg/Kg	☼	61	60 - 140	8	30
Tetrachloroethene	0.000878	U	0.0619	0.07904		mg/Kg	☼	128	60 - 140	5	30
Toluene	0.00171	U	0.0619	0.04497		mg/Kg	☼	73	64 - 135	2	30
1,1,1-Trichloroethane	0.000916	U	0.0619	0.04981		mg/Kg	☼	81	60 - 140	8	30
1,1,2-Trichloroethane	0.000903	U	0.0619	0.04447		mg/Kg	☼	72	60 - 140	14	30
Trichloroethene	0.00173	U	0.0619	0.05109		mg/Kg	☼	83	61 - 135	8	30
Vinyl acetate	0.00115	U	0.0619	0.02185	N	mg/Kg	☼	35	60 - 140	1	30
Vinyl chloride	0.00111	U	0.0619	0.04449		mg/Kg	☼	72	60 - 140	11	30
o-Xylene	0.00140	U	0.0619	0.04668		mg/Kg	☼	75	60 - 140	1	30
m-Xylene & p-Xylene	0.00188	U	0.124	0.08889		mg/Kg	☼	72	60 - 140	4	30
Xylenes, Total	0.00140	U	0.186	0.1356		mg/Kg	☼	73	60 - 140	3	30
Bromodichloromethane	0.000817	U	0.0619	0.04040		mg/Kg	☼	65	60 - 140	7	30
1,2-Dichloroethene, Total	0.00235	U	0.124	0.08682		mg/Kg	☼	70	60 - 140	6	30
Methyl tert-butyl ether	0.00226	U	0.0619	0.03929		mg/Kg	☼	64	60 - 140	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*50 - 130*
Dibromofluoromethane	*112*		*68 - 140*
4-Bromofluorobenzene	*126*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-105736/1-A
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105736

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00144	U	0.0167	0.00144	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Acenaphthylene	0.00100	U	0.0167	0.00100	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Anthracene	0.00128	U	0.0167	0.00128	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzidine	0.00902	U	0.0833	0.00902	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzo[a]anthracene	0.00138	U	0.0167	0.00138	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzo[b]fluoranthene	0.00172	U	0.0167	0.00172	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzo[k]fluoranthene	0.00149	U	0.0167	0.00149	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzo[g,h,i]perylene	0.00507	U	0.0167	0.00507	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzo[a]pyrene	0.00161	U	0.0167	0.00161	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Bis(2-chloroethoxy)methane	0.00142	U	0.0167	0.00142	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Bis(2-chloroethyl)ether	0.00165	U	0.0167	0.00165	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Bis(2-ethylhexyl) phthalate	0.00537	U	0.0667	0.00537	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Bromophenyl phenyl ether	0.00284	U	0.0167	0.00284	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Butyl benzyl phthalate	0.00619	U	0.0667	0.00619	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Chloroaniline	0.00582	U	0.0167	0.00582	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Chloronaphthalene	0.00121	U	0.0167	0.00121	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Chlorophenyl phenyl ether	0.00180	U	0.0167	0.00180	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Carbazole	0.00312	U	0.0167	0.00312	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Chrysene	0.00102	U	0.0167	0.00102	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Di-n-butyl phthalate	0.00259	U	0.0667	0.00259	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Dibenz(a,h)anthracene	0.00363	U	0.0167	0.00363	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Dibenzofuran	0.00178	U	0.0167	0.00178	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
1,2-Dichlorobenzene	0.00302	U	0.0167	0.00302	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
1,3-Dichlorobenzene	0.00154	U	0.0167	0.00154	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
1,4-Dichlorobenzene	0.00225	U	0.0167	0.00225	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
3,3'-Dichlorobenzidine	0.0102	U	0.0167	0.0102	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Diethyl phthalate	0.00843	U	0.0667	0.00843	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Dimethyl phthalate	0.00489	U	0.0667	0.00489	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4-Dinitrotoluene	0.00361	U	0.0167	0.00361	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Di-n-octyl phthalate	0.00190	U	0.0667	0.00190	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Fluoranthene	0.00311	U	0.0167	0.00311	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Fluorene	0.00236	U	0.0167	0.00236	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Hexachlorobenzene	0.00152	U	0.0167	0.00152	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Hexachlorocyclopentadiene	0.00461	U	0.0167	0.00461	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Hexachloroethane	0.00231	U	0.0167	0.00231	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Hexachlorobutadiene	0.00192	U	0.0167	0.00192	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0167	0.00350	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Isophorone	0.00100	U	0.0167	0.00100	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Methylnaphthalene	0.00274	U	0.0167	0.00274	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Naphthalene	0.00135	U	0.0167	0.00135	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Nitroaniline	0.00489	U	0.0167	0.00489	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
3-Nitroaniline	0.00715	U	0.0167	0.00715	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Nitroaniline	0.0112	U	0.0167	0.0112	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Nitrobenzene	0.00296	U	0.0167	0.00296	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
N-Nitrosodimethylamine	0.00419	U	0.0167	0.00419	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
N-Nitrosodiphenylamine	0.00189	U	0.0167	0.00189	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
N-Nitrosodi-n-propylamine	0.00222	U	0.0167	0.00222	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Phenanthrene	0.00495	U	0.0167	0.00495	mg/Kg		05/09/13 08:39	05/09/13 18:33	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-105736/1-A
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105736

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.00183	U	0.0167	0.00183	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
1,2,4-Trichlorobenzene	0.00210	U	0.0167	0.00210	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Benzyl alcohol	0.00583	U	0.0167	0.00583	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Chloro-3-methylphenol	0.0156	U	0.0167	0.0156	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Chlorophenol	0.00197	U	0.0167	0.00197	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Methylphenol	0.00323	U	0.0167	0.00323	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
3 & 4 Methylphenol	0.00279	U	0.0333	0.00279	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4-Dichlorophenol	0.00387	U	0.0167	0.00387	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4-Dimethylphenol	0.00858	U	0.0167	0.00858	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4,6-Dinitro-2-methylphenol	0.00498	U	0.0167	0.00498	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4-Dinitrophenol	0.00472	U	0.100	0.00472	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2-Nitrophenol	0.00389	U	0.0167	0.00389	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
4-Nitrophenol	0.00508	U	0.0167	0.00508	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
Phenol	0.00424	U	0.0167	0.00424	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4,5-Trichlorophenol	0.0100	U	0.0167	0.0100	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,4,6-Trichlorophenol	0.00268	U	0.0167	0.00268	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
2,6-Dinitrotoluene	0.00295	U	0.0167	0.00295	mg/Kg		05/09/13 08:39	05/09/13 18:33	1
bis (2-Chloroisopropyl) ether	0.00884	U	0.0167	0.00884	mg/Kg		05/09/13 08:39	05/09/13 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*103*		*56 - 123*	*05/09/13 08:39*	*05/09/13 18:33*	*1*
Nitrobenzene-d5	*85*		*34 - 118*	*05/09/13 08:39*	*05/09/13 18:33*	*1*
2-Fluorophenol	*82*		*41 - 122*	*05/09/13 08:39*	*05/09/13 18:33*	*1*
2-Fluorobiphenyl	*86*		*51 - 120*	*05/09/13 08:39*	*05/09/13 18:33*	*1*
2,4,6-Tribromophenol	*63*		*34 - 122*	*05/09/13 08:39*	*05/09/13 18:33*	*1*
Phenol-d5 (Surr)	*81*		*43 - 125*	*05/09/13 08:39*	*05/09/13 18:33*	*1*

Lab Sample ID: LCS 600-105736/2-A
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.3127		mg/Kg		94	58 - 125
Acenaphthylene	0.333	0.3146		mg/Kg		94	51 - 122
Anthracene	0.333	0.3196		mg/Kg		96	52 - 120
Benzidine	3.33	0.6171		mg/Kg		19	10 - 135
Benzo[a]anthracene	0.333	0.3389		mg/Kg		102	49 - 124
Benzo[b]fluoranthene	0.333	0.3229		mg/Kg		97	58 - 130
Benzo[k]fluoranthene	0.333	0.3144		mg/Kg		94	56 - 129
Benzo[g,h,i]perylene	0.333	0.3820		mg/Kg		115	50 - 140
Benzo[a]pyrene	0.333	0.3164		mg/Kg		95	58 - 123
Bis(2-chloroethoxy)methane	0.333	0.2957		mg/Kg		89	54 - 114
Bis(2-chloroethyl)ether	0.333	0.2917		mg/Kg		88	44 - 119
Bis(2-ethylhexyl) phthalate	0.333	0.3321		mg/Kg		100	55 - 136
4-Bromophenyl phenyl ether	0.333	0.3570		mg/Kg		107	56 - 126
Butyl benzyl phthalate	0.333	0.3342		mg/Kg		100	43 - 135
4-Chloroaniline	0.333	0.2644		mg/Kg		79	42 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105736/2-A
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	0.333	0.3237		mg/Kg		97	50 - 123
4-Chlorophenyl phenyl ether	0.333	0.3130		mg/Kg		94	57 - 126
Carbazole	0.333	0.3651		mg/Kg		110	47 - 153
Chrysene	0.333	0.3299		mg/Kg		99	50 - 123
Di-n-butyl phthalate	0.333	0.3100		mg/Kg		93	61 - 124
Dibenz(a,h)anthracene	0.333	0.3560		mg/Kg		107	55 - 141
Dibenzofuran	0.333	0.3235		mg/Kg		97	54 - 119
1,2-Dichlorobenzene	0.333	0.3119		mg/Kg		94	57 - 117
1,3-Dichlorobenzene	0.333	0.3248		mg/Kg		97	50 - 128
1,4-Dichlorobenzene	0.333	0.3200		mg/Kg		96	59 - 117
3,3'-Dichlorobenzidine	0.333	0.3220		mg/Kg		97	18 - 172
Diethyl phthalate	0.333	0.3295		mg/Kg		99	55 - 126
Dimethyl phthalate	0.333	0.3073		mg/Kg		92	58 - 126
2,4-Dinitrotoluene	0.333	0.3041		mg/Kg		91	53 - 123
Di-n-octyl phthalate	0.333	0.3444		mg/Kg		103	45 - 135
Fluoranthene	0.333	0.3193		mg/Kg		96	56 - 123
Fluorene	0.333	0.3115		mg/Kg		93	52 - 147
Hexachlorobenzene	0.333	0.3462		mg/Kg		104	59 - 122
Hexachlorocyclopentadiene	0.333	0.3498		mg/Kg		105	33 - 119
Hexachloroethane	0.333	0.3077		mg/Kg		92	36 - 116
Hexachlorobutadiene	0.333	0.3136		mg/Kg		94	49 - 123
Indeno[1,2,3-cd]pyrene	0.333	0.3676		mg/Kg		110	40 - 147
Isophorone	0.333	0.3104		mg/Kg		93	49 - 115
2-Methylnaphthalene	0.333	0.3023		mg/Kg		91	54 - 130
Naphthalene	0.333	0.3215		mg/Kg		96	52 - 117
2-Nitroaniline	0.333	0.3818		mg/Kg		115	49 - 149
3-Nitroaniline	0.333	0.1951		mg/Kg		59	45 - 133
4-Nitroaniline	0.333	0.3367		mg/Kg		101	48 - 138
Nitrobenzene	0.333	0.3301		mg/Kg		99	53 - 123
N-Nitrosodimethylamine	0.333	0.3598		mg/Kg		108	41 - 138
N-Nitrosodiphenylamine	0.333	0.4076		mg/Kg		122	47 - 127
N-Nitrosodi-n-propylamine	0.333	0.3327		mg/Kg		100	43 - 140
Phenanthrene	0.333	0.3385		mg/Kg		102	55 - 120
Pyrene	0.333	0.3516		mg/Kg		105	48 - 131
1,2,4-Trichlorobenzene	0.333	0.3124		mg/Kg		94	54 - 115
Benzyl alcohol	0.333	0.2941		mg/Kg		88	25 - 141
4-Chloro-3-methylphenol	0.333	0.2789		mg/Kg		84	54 - 119
2-Chlorophenol	0.333	0.3164		mg/Kg		95	54 - 119
2-Methylphenol	0.333	0.2978		mg/Kg		89	45 - 118
3 & 4 Methylphenol	0.333	0.2845		mg/Kg		85	44 - 126
2,4-Dichlorophenol	0.333	0.3163		mg/Kg		95	54 - 119
2,4-Dimethylphenol	0.333	0.3106		mg/Kg		93	36 - 124
4,6-Dinitro-2-methylphenol	0.333	0.1726		mg/Kg		52	34 - 124
2,4-Dinitrophenol	0.333	0.3658		mg/Kg		110	25 - 117
2-Nitrophenol	0.333	0.3305		mg/Kg		99	50 - 112
4-Nitrophenol	0.333	0.3777		mg/Kg		113	20 - 132
Pentachlorophenol	0.333	0.2749		mg/Kg		82	17 - 124
Phenol	0.333	0.3114		mg/Kg		93	33 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105736/2-A
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.333	0.3100		mg/Kg		93	59 - 136
2,4,6-Trichlorophenol	0.333	0.3184		mg/Kg		96	59 - 134
2,6-Dinitrotoluene	0.333	0.2994		mg/Kg		90	53 - 116
bis (2-Chloroisopropyl) ether	0.333	0.3571		mg/Kg		107	51 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*99*		*56 - 123*
Nitrobenzene-d5	*103*		*34 - 118*
2-Fluorophenol	*103*		*41 - 122*
2-Fluorobiphenyl	*105*		*51 - 120*
2,4,6-Tribromophenol	*94*		*34 - 122*
Phenol-d5 (Surr)	*97*		*43 - 125*

Lab Sample ID: 600-72755-15 MS
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.00178	U	0.410	0.3692		mg/Kg	☼	90	25 - 134
Acenaphthylene	0.00124	U	0.410	0.3803		mg/Kg	☼	93	32 - 137
Anthracene	0.00158	U	0.410	0.3875		mg/Kg	☼	94	35 - 115
Benzidine	0.0111	U	4.10	2.964		mg/Kg	☼	72	0 - 150
Benzo[a]anthracene	0.00171	U	0.410	0.4105		mg/Kg	☼	100	38 - 128
Benzo[b]fluoranthene	0.00213	U	0.410	0.3565		mg/Kg	☼	87	40 - 131
Benzo[k]fluoranthene	0.00184	U	0.410	0.3743		mg/Kg	☼	91	33 - 137
Benzo[g,h,i]perylene	0.00626	U	0.410	0.5183	N	mg/Kg	☼	126	34 - 110
Benzo[a]pyrene	0.00199	U	0.410	0.3792		mg/Kg	☼	92	30 - 130
Bis(2-chloroethoxy)methane	0.00175	U	0.410	0.3234		mg/Kg	☼	79	33 - 119
Bis(2-chloroethyl)ether	0.00204	U	0.410	0.3394		mg/Kg	☼	83	28 - 120
Bis(2-ethylhexyl) phthalate	0.0119	J	0.410	0.4031		mg/Kg	☼	95	44 - 139
4-Bromophenyl phenyl ether	0.00351	U	0.410	0.4224		mg/Kg	☼	103	41 - 123
Butyl benzyl phthalate	0.00765	U	0.410	0.3555		mg/Kg	☼	87	41 - 139
4-Chloroaniline	0.00719	U	0.410	0.3324		mg/Kg	☼	81	15 - 112
2-Chloronaphthalene	0.00149	U	0.410	0.3856		mg/Kg	☼	94	34 - 126
4-Chlorophenyl phenyl ether	0.00222	U	0.410	0.3468		mg/Kg	☼	84	32 - 132
Carbazole	0.00385	U	0.410	0.4492		mg/Kg	☼	109	7 - 163
Chrysene	0.00126	U	0.410	0.4138		mg/Kg	☼	101	36 - 130
Di-n-butyl phthalate	0.00320	U	0.410	0.4042		mg/Kg	☼	98	41 - 126
Dibenz(a,h)anthracene	0.00448	U	0.410	0.5153	N	mg/Kg	☼	126	19 - 125
Dibenzofuran	0.00220	U	0.410	0.3670		mg/Kg	☼	89	35 - 125
1,2-Dichlorobenzene	0.00373	U	0.410	0.3626		mg/Kg	☼	88	30 - 130
1,3-Dichlorobenzene	0.00190	U	0.410	0.3725		mg/Kg	☼	91	30 - 130
1,4-Dichlorobenzene	0.00278	U	0.410	0.3741		mg/Kg	☼	91	30 - 130
3,3'-Dichlorobenzidine	0.0126	U	0.410	0.4796		mg/Kg	☼	117	14 - 132
Diethyl phthalate	0.0196	J	0.410	0.3990		mg/Kg	☼	92	41 - 129
Dimethyl phthalate	0.00604	U	0.410	0.3945		mg/Kg	☼	96	40 - 130
2,4-Dinitrotoluene	0.00446	U	0.410	0.3615		mg/Kg	☼	88	10 - 129
Di-n-octyl phthalate	0.00235	U	0.410	0.3485		mg/Kg	☼	85	36 - 152

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72755-15 MS
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.00384	U	0.410	0.4061		mg/Kg	☼	99	37 - 132
Fluorene	0.00292	U	0.410	0.3668		mg/Kg	☼	89	36 - 122
Hexachlorobenzene	0.00188	U	0.410	0.3880		mg/Kg	☼	95	40 - 123
Hexachlorocyclopentadiene	0.00570	U	0.410	0.3125		mg/Kg	☼	76	10 - 118
Hexachloroethane	0.00285	U	0.410	0.3361		mg/Kg	☼	82	31 - 113
Hexachlorobutadiene	0.00237	U	0.410	0.3381		mg/Kg	☼	82	32 - 124
Indeno[1,2,3-cd]pyrene	0.00432	U	0.410	0.5502	N	mg/Kg	☼	134	30 - 112
Isophorone	0.00124	U	0.410	0.3613		mg/Kg	☼	88	33 - 125
2-Methylnaphthalene	0.00339	U	0.410	0.3487		mg/Kg	☼	85	32 - 136
Naphthalene	0.00167	U	0.410	0.3592		mg/Kg	☼	88	30 - 112
2-Nitroaniline	0.00604	U	0.410	0.4756		mg/Kg	☼	116	38 - 130
3-Nitroaniline	0.00883	U	0.410	0.1818		mg/Kg	☼	44	22 - 124
4-Nitroaniline	0.0138	U	0.410	0.3757		mg/Kg	☼	92	21 - 122
Nitrobenzene	0.00366	U	0.410	0.3452		mg/Kg	☼	84	29 - 118
N-Nitrosodimethylamine	0.00518	U	0.410	0.4260		mg/Kg	☼	104	30 - 130
N-Nitrosodiphenylamine	0.00234	U	0.410	0.5157	N	mg/Kg	☼	126	28 - 106
N-Nitrosodi-n-propylamine	0.00274	U	0.410	0.3810		mg/Kg	☼	93	34 - 115
Phenanthrene	0.00612	U	0.410	0.4125		mg/Kg	☼	100	26 - 126
Pyrene	0.00226	U	0.410	0.3956		mg/Kg	☼	96	28 - 138
1,2,4-Trichlorobenzene	0.00259	U	0.410	0.3303		mg/Kg	☼	80	38 - 107
Benzyl alcohol	0.00720	U	0.410	0.3678		mg/Kg	☼	90	27 - 128
4-Chloro-3-methylphenol	0.0192	U	0.410	0.3332		mg/Kg	☼	81	26 - 132
2-Chlorophenol	0.00243	U	0.410	0.3622		mg/Kg	☼	88	21 - 130
2-Methylphenol	0.00399	U	0.410	0.3513		mg/Kg	☼	86	26 - 125
3 & 4 Methylphenol	0.00345	U	0.410	0.3208		mg/Kg	☼	78	30 - 130
2,4-Dichlorophenol	0.00478	U	0.410	0.3549		mg/Kg	☼	86	35 - 121
2,4-Dimethylphenol	0.0106	U	0.410	0.3568		mg/Kg	☼	87	29 - 122
4,6-Dinitro-2-methylphenol	0.00615	U	0.410	0.1593		mg/Kg	☼	39	10 - 104
2,4-Dinitrophenol	0.00583	U	0.410	0.3417		mg/Kg	☼	83	10 - 121
2-Nitrophenol	0.00481	U	0.410	0.3539		mg/Kg	☼	86	30 - 130
4-Nitrophenol	0.00628	U	0.410	0.3539		mg/Kg	☼	86	25 - 122
Pentachlorophenol	0.00494	U	0.410	0.3379		mg/Kg	☼	82	25 - 124
Phenol	0.00524	U	0.410	0.3752		mg/Kg	☼	91	31 - 121
2,4,5-Trichlorophenol	0.0124	U	0.410	0.4126		mg/Kg	☼	101	30 - 130
2,4,6-Trichlorophenol	0.00331	U	0.410	0.3979		mg/Kg	☼	97	30 - 130
2,6-Dinitrotoluene	0.00364	U	0.410	0.3613		mg/Kg	☼	88	30 - 124
bis (2-Chloroisopropyl) ether	0.0109	U	0.410	0.4101		mg/Kg	☼	100	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*89*		*56 - 123*
Nitrobenzene-d5	*88*		*34 - 118*
2-Fluorophenol	*96*		*41 - 122*
2-Fluorobiphenyl	*99*		*51 - 120*
2,4,6-Tribromophenol	*81*		*34 - 122*
Phenol-d5 (Surr)	*91*		*43 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72755-15 MSD
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.00178	U	0.411	0.3762		mg/Kg	☼	92	25 - 134	2	30
Acenaphthylene	0.00124	U	0.411	0.3922		mg/Kg	☼	95	32 - 137	3	30
Anthracene	0.00158	U	0.411	0.4093		mg/Kg	☼	100	35 - 115	5	30
Benzidine	0.0111	U	4.11	3.048		mg/Kg	☼	74	0 - 150	3	40
Benzo[a]anthracene	0.00171	U	0.411	0.4035		mg/Kg	☼	98	38 - 128	2	30
Benzo[b]fluoranthene	0.00213	U	0.411	0.3803		mg/Kg	☼	92	40 - 131	6	30
Benzo[k]fluoranthene	0.00184	U	0.411	0.3500		mg/Kg	☼	85	33 - 137	7	30
Benzo[g,h,i]perylene	0.00626	U	0.411	0.5102	N	mg/Kg	☼	124	34 - 110	2	30
Benzo[a]pyrene	0.00199	U	0.411	0.3590		mg/Kg	☼	87	30 - 130	5	30
Bis(2-chloroethoxy)methane	0.00175	U	0.411	0.3674		mg/Kg	☼	89	33 - 119	13	30
Bis(2-chloroethyl)ether	0.00204	U	0.411	0.3266		mg/Kg	☼	79	28 - 120	4	30
Bis(2-ethylhexyl) phthalate	0.0119	J	0.411	0.3729		mg/Kg	☼	88	44 - 139	8	30
4-Bromophenyl phenyl ether	0.00351	U	0.411	0.4866		mg/Kg	☼	118	41 - 123	14	30
Butyl benzyl phthalate	0.00765	U	0.411	0.3430		mg/Kg	☼	83	41 - 139	4	30
4-Chloroaniline	0.00719	U	0.411	0.3435		mg/Kg	☼	84	15 - 112	3	30
2-Chloronaphthalene	0.00149	U	0.411	0.4094		mg/Kg	☼	100	34 - 126	6	30
4-Chlorophenyl phenyl ether	0.00222	U	0.411	0.3616		mg/Kg	☼	88	32 - 132	4	30
Carbazole	0.00385	U	0.411	0.4523		mg/Kg	☼	110	7 - 163	1	30
Chrysene	0.00126	U	0.411	0.3974		mg/Kg	☼	97	36 - 130	4	30
Di-n-butyl phthalate	0.00320	U	0.411	0.3970		mg/Kg	☼	97	41 - 126	2	30
Dibenz(a,h)anthracene	0.00448	U	0.411	0.4529		mg/Kg	☼	110	19 - 125	13	30
Dibenzofuran	0.00220	U	0.411	0.3601		mg/Kg	☼	88	35 - 125	2	30
1,2-Dichlorobenzene	0.00373	U	0.411	0.3528		mg/Kg	☼	86	30 - 130	3	30
1,3-Dichlorobenzene	0.00190	U	0.411	0.3755		mg/Kg	☼	91	30 - 130	1	30
1,4-Dichlorobenzene	0.00278	U	0.411	0.3737		mg/Kg	☼	91	30 - 130	0	30
3,3'-Dichlorobenzidine	0.0126	U	0.411	0.4803		mg/Kg	☼	117	14 - 132	0	30
Diethyl phthalate	0.0196	J	0.411	0.3953		mg/Kg	☼	91	41 - 129	1	30
Dimethyl phthalate	0.00604	U	0.411	0.4032		mg/Kg	☼	98	40 - 130	2	30
2,4-Dinitrotoluene	0.00446	U	0.411	0.3748		mg/Kg	☼	91	10 - 129	4	30
Di-n-octyl phthalate	0.00235	U	0.411	0.3132		mg/Kg	☼	76	36 - 152	11	30
Fluoranthene	0.00384	U	0.411	0.3820		mg/Kg	☼	93	37 - 132	6	30
Fluorene	0.00292	U	0.411	0.3597		mg/Kg	☼	87	36 - 122	2	30
Hexachlorobenzene	0.00188	U	0.411	0.3993		mg/Kg	☼	97	40 - 123	3	30
Hexachlorocyclopentadiene	0.00570	U	0.411	0.3180		mg/Kg	☼	77	10 - 118	2	30
Hexachloroethane	0.00285	U	0.411	0.3438		mg/Kg	☼	84	31 - 113	2	30
Hexachlorobutadiene	0.00237	U	0.411	0.3687		mg/Kg	☼	90	32 - 124	9	30
Indeno[1,2,3-cd]pyrene	0.00432	U	0.411	0.4762	N	mg/Kg	☼	116	30 - 112	14	30
Isophorone	0.00124	U	0.411	0.3859		mg/Kg	☼	94	33 - 125	7	30
2-Methylnaphthalene	0.00339	U	0.411	0.3492		mg/Kg	☼	85	32 - 136	0	30
Naphthalene	0.00167	U	0.411	0.3752		mg/Kg	☼	91	30 - 112	4	30
2-Nitroaniline	0.00604	U	0.411	0.4609		mg/Kg	☼	112	38 - 130	3	30
3-Nitroaniline	0.00883	U	0.411	0.1912		mg/Kg	☼	46	22 - 124	5	30
4-Nitroaniline	0.0138	U	0.411	0.3830		mg/Kg	☼	93	21 - 122	2	30
Nitrobenzene	0.00366	U	0.411	0.3814		mg/Kg	☼	93	29 - 118	10	30
N-Nitrosodimethylamine	0.00518	U	0.411	0.4339		mg/Kg	☼	106	30 - 130	2	30
N-Nitrosodiphenylamine	0.00234	U	0.411	0.5440	N	mg/Kg	☼	132	28 - 106	5	30
N-Nitrosodi-n-propylamine	0.00274	U	0.411	0.3847		mg/Kg	☼	94	34 - 115	1	30
Phenanthrene	0.00612	U	0.411	0.3955		mg/Kg	☼	96	26 - 126	4	30

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72755-15 MSD
Matrix: Solid
Analysis Batch: 105855

Client Sample ID: 2013-RMSB-4 (0-2)
Prep Type: Total/NA
Prep Batch: 105736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	0.00226	U	0.411	0.3755		mg/Kg	☼	91	28 - 138	5	30
1,2,4-Trichlorobenzene	0.00259	U	0.411	0.3673		mg/Kg	☼	89	38 - 107	11	30
Benzyl alcohol	0.00720	U	0.411	0.3536		mg/Kg	☼	86	27 - 128	4	30
4-Chloro-3-methylphenol	0.0192	U	0.411	0.3302		mg/Kg	☼	80	26 - 132	1	30
2-Chlorophenol	0.00243	U	0.411	0.3641		mg/Kg	☼	89	21 - 130	1	30
2-Methylphenol	0.00399	U	0.411	0.3394		mg/Kg	☼	83	26 - 125	3	30
3 & 4 Methylphenol	0.00345	U	0.411	0.3257		mg/Kg	☼	79	30 - 130	2	30
2,4-Dichlorophenol	0.00478	U	0.411	0.3730		mg/Kg	☼	91	35 - 121	5	30
2,4-Dimethylphenol	0.0106	U	0.411	0.3700		mg/Kg	☼	90	29 - 122	4	30
4,6-Dinitro-2-methylphenol	0.00615	U	0.411	0.1199		mg/Kg	☼	29	10 - 104	28	30
2,4-Dinitrophenol	0.00583	U	0.411	0.2793		mg/Kg	☼	68	10 - 121	20	30
2-Nitrophenol	0.00481	U	0.411	0.3954		mg/Kg	☼	96	30 - 130	11	30
4-Nitrophenol	0.00628	U	0.411	0.4288		mg/Kg	☼	104	25 - 122	19	30
Pentachlorophenol	0.00494	U	0.411	0.3592		mg/Kg	☼	87	25 - 124	6	30
Phenol	0.00524	U	0.411	0.3679		mg/Kg	☼	89	31 - 121	2	30
2,4,5-Trichlorophenol	0.0124	U	0.411	0.4138		mg/Kg	☼	101	30 - 130	0	30
2,4,6-Trichlorophenol	0.00331	U	0.411	0.4096		mg/Kg	☼	100	30 - 130	3	30
2,6-Dinitrotoluene	0.00364	U	0.411	0.3603		mg/Kg	☼	88	30 - 124	0	30
bis (2-Chloroisopropyl) ether	0.0109	U	0.411	0.4056		mg/Kg	☼	99	50 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*83*		*56 - 123*
Nitrobenzene-d5	*98*		*34 - 118*
2-Fluorophenol	*98*		*41 - 122*
2-Fluorobiphenyl	*104*		*51 - 120*
2,4,6-Tribromophenol	*79*		*34 - 122*
Phenol-d5 (Surr)	*92*		*43 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105694/1-A
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105694

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0506	U	0.500	0.0506	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Barium	0.05000	J	1.00	0.0300	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Silver	0.119	U	0.500	0.119	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		05/08/13 13:57	05/08/13 21:20	1
Selenium	0.259	U	2.00	0.259	mg/Kg		05/08/13 13:57	05/08/13 21:20	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 600-105694/2-A
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105694

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium			119	123.2		mg/Kg		103.5	81.6 - 117.6		
Lead			76.9	79.80		mg/Kg		103.8	81.3 - 118.7		
Cadmium			103	108.9		mg/Kg		105.7	83.6 - 115.5		
Barium			213	204.8		mg/Kg		96.2	83.1 - 116.9		
Silver			42.3	42.96		mg/Kg		101.6	66.4 - 133.8		
Arsenic			168	175.2		mg/Kg		104.3	83.3 - 117.3		
Selenium			126	134.3		mg/Kg		106.6	80.2 - 120.6		

Lab Sample ID: 600-72755-5 MS
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: DUP-13
Prep Type: Total/NA
Prep Batch: 105694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium	9.48		53.4	61.19		mg/Kg	☼	97	75 - 125		
Lead	1580		53.4	1617	4	mg/Kg	☼	66	75 - 125		
Cadmium	65.2		26.7	111.2	N	mg/Kg	☼	172	75 - 125		
Barium	173		53.4	215.8		mg/Kg	☼	79	75 - 125		
Silver	0.144		26.7	30.42		mg/Kg	☼	113	75 - 125		
Arsenic	14.7		53.4	74.98		mg/Kg	☼	113	75 - 125		
Selenium	4.21		53.4	61.94		mg/Kg	☼	108	75 - 125		

Lab Sample ID: 600-72755-5 MSD
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: DUP-13
Prep Type: Total/NA
Prep Batch: 105694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	9.48		51.4	55.24		mg/Kg	☼	89	75 - 125	10	20
Lead	1580		51.4	1785	4	mg/Kg	☼	396	75 - 125	10	20
Cadmium	65.2		25.7	116.2	N	mg/Kg	☼	199	75 - 125	4	20
Barium	173		51.4	226.9		mg/Kg	☼	104	75 - 125	5	20
Silver	0.144		25.7	28.71		mg/Kg	☼	111	75 - 125	6	20
Arsenic	14.7		51.4	72.00		mg/Kg	☼	111	75 - 125	4	20
Selenium	4.21		51.4	59.10		mg/Kg	☼	107	75 - 125	5	20

Lab Sample ID: 600-72755-5 DU
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: DUP-13
Prep Type: Total/NA
Prep Batch: 105694

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	9.48		272.6	F	mg/Kg	☼	187	20
Lead	1580		1117	F	mg/Kg	☼	34	20
Cadmium	65.2		60.69		mg/Kg	☼	7	20
Barium	173		121.9	F	mg/Kg	☼	35	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72755-5 DU
Matrix: Solid
Analysis Batch: 105731

Client Sample ID: DUP-13
Prep Type: Total/NA
Prep Batch: 105694

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.144		0.1449	J	mg/Kg	☼	0.7	20
Arsenic	14.7		19.01	F	mg/Kg	☼	25	20
Selenium	4.21		4.021		mg/Kg	☼	5	20

Lab Sample ID: MB 600-105718/1-A
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105718

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		05/08/13 16:25	05/09/13 11:44	1
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/08/13 16:25	05/09/13 11:44	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		05/08/13 16:25	05/09/13 11:44	1
Selenium	0.259	U	2.00	0.259	mg/Kg		05/08/13 16:25	05/09/13 11:44	1

Lab Sample ID: LCSSRM 600-105718/2-A
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105718

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	72.03		mg/Kg		93.7	81.3 - 118.7
Cadmium	103	99.14		mg/Kg		96.3	83.6 - 115.5
Arsenic	168	161.2		mg/Kg		96.0	83.3 - 117.3
Selenium	126	120.7		mg/Kg		95.8	80.2 - 120.6

Lab Sample ID: 600-72755-1 MS
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: 2013-RMSB-5 (1.3-2)
Prep Type: Total/NA
Prep Batch: 105718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	72.1		26.4	71.39	N	mg/Kg	☼	-3	75 - 125
Lead	1790		52.8	1328	4	mg/Kg	☼	-875	75 - 125
Arsenic	17.5		52.8	69.39		mg/Kg	☼	98	75 - 125
Selenium	4.77		52.8	55.35		mg/Kg	☼	96	75 - 125

Lab Sample ID: 600-72755-1 MSD
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: 2013-RMSB-5 (1.3-2)
Prep Type: Total/NA
Prep Batch: 105718

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	72.1		24.7	84.28	N	mg/Kg	☼	49	75 - 125	17	20
Lead	1790		49.4	2018	4 N	mg/Kg	☼	464	75 - 125	41	20
Arsenic	17.5		49.4	69.86		mg/Kg	☼	106	75 - 125	1	20
Selenium	4.77		49.4	54.65		mg/Kg	☼	101	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72755-1 DU
Matrix: Solid
Analysis Batch: 105763

Client Sample ID: 2013-RMSB-5 (1.3-2)
Prep Type: Total/NA
Prep Batch: 105718

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	1790			1571		mg/Kg	☼			13	20
Cadmium	72.1			56.95	F	mg/Kg	☼			23	20
Arsenic	17.5			14.81		mg/Kg	☼			16	20
Selenium	4.77			3.993		mg/Kg	☼			18	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-105732/7-A
Matrix: Solid
Analysis Batch: 105744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105732

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0469	0.00336	mg/Kg		05/09/13 07:05	05/09/13 08:48	1

Lab Sample ID: LCSSRM 600-105732/8-A ^100
Matrix: Solid
Analysis Batch: 105744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105732

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			25.3	23.01		mg/Kg		90.9	71.5 - 128.1		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72755-7 DU
Matrix: Solid
Analysis Batch: 105689

Client Sample ID: 2013-RMSB-9 (2-2.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15			16		%				2	20
Percent Solids	85			84		%				0.5	20

Lab Sample ID: 600-72755-17 DU
Matrix: Solid
Analysis Batch: 105689

Client Sample ID: 2013-RMSB-4 (5-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	23			23		%				3	20
Percent Solids	77			77		%				1	20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1,2,4-Trichlorobenzene	0.0167	0.00210	mg/Kg	8270C LL
1,2-Dichlorobenzene	0.0167	0.00302	mg/Kg	8270C LL
1,3-Dichlorobenzene	0.0167	0.00154	mg/Kg	8270C LL
1,4-Dichlorobenzene	0.0167	0.00225	mg/Kg	8270C LL
2,4,5-Trichlorophenol	0.0167	0.0100	mg/Kg	8270C LL
2,4,6-Trichlorophenol	0.0167	0.00268	mg/Kg	8270C LL
2,4-Dichlorophenol	0.0167	0.00387	mg/Kg	8270C LL
2,4-Dimethylphenol	0.0167	0.00858	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
2,4-Dinitrophenol	0.100	0.00472	mg/Kg	8270C LL
2,4-Dinitrotoluene	0.0167	0.00361	mg/Kg	8270C LL
2,6-Dinitrotoluene	0.0167	0.00295	mg/Kg	8270C LL
2-Chloronaphthalene	0.0167	0.00121	mg/Kg	8270C LL
2-Chlorophenol	0.0167	0.00197	mg/Kg	8270C LL
2-Methylnaphthalene	0.0167	0.00274	mg/Kg	8270C LL
2-Methylphenol	0.0167	0.00323	mg/Kg	8270C LL
2-Nitroaniline	0.0167	0.00489	mg/Kg	8270C LL
2-Nitrophenol	0.0167	0.00389	mg/Kg	8270C LL
3 & 4 Methylphenol	0.0333	0.00279	mg/Kg	8270C LL
3,3'-Dichlorobenzidine	0.0167	0.0102	mg/Kg	8270C LL
3-Nitroaniline	0.0167	0.00715	mg/Kg	8270C LL
4,6-Dinitro-2-methylphenol	0.0167	0.00498	mg/Kg	8270C LL
4-Bromophenyl phenyl ether	0.0167	0.00284	mg/Kg	8270C LL
4-Chloro-3-methylphenol	0.0167	0.0156	mg/Kg	8270C LL
4-Chloroaniline	0.0167	0.00582	mg/Kg	8270C LL
4-Chlorophenyl phenyl ether	0.0167	0.00180	mg/Kg	8270C LL
4-Nitroaniline	0.0167	0.0112	mg/Kg	8270C LL
4-Nitrophenol	0.0167	0.00508	mg/Kg	8270C LL
Acenaphthene	0.0167	0.00144	mg/Kg	8270C LL
Acenaphthylene	0.0167	0.00100	mg/Kg	8270C LL
Anthracene	0.0167	0.00128	mg/Kg	8270C LL
Benzidine	0.0833	0.00902	mg/Kg	8270C LL
Benzo[a]anthracene	0.0167	0.00138	mg/Kg	8270C LL
Benzo[a]pyrene	0.0167	0.00161	mg/Kg	8270C LL
Benzo[b]fluoranthene	0.0167	0.00172	mg/Kg	8270C LL
Benzo[g,h,i]perylene	0.0167	0.00507	mg/Kg	8270C LL
Benzo[k]fluoranthene	0.0167	0.00149	mg/Kg	8270C LL
Benzyl alcohol	0.0167	0.00583	mg/Kg	8270C LL
bis (2-Chloroisopropyl) ether	0.0167	0.00884	mg/Kg	8270C LL
Bis(2-chloroethoxy)methane	0.0167	0.00142	mg/Kg	8270C LL
Bis(2-chloroethyl)ether	0.0167	0.00165	mg/Kg	8270C LL
Bis(2-ethylhexyl) phthalate	0.0667	0.00537	mg/Kg	8270C LL
Butyl benzyl phthalate	0.0667	0.00619	mg/Kg	8270C LL
Carbazole	0.0167	0.00312	mg/Kg	8270C LL
Chrysene	0.0167	0.00102	mg/Kg	8270C LL
Dibenz(a,h)anthracene	0.0167	0.00363	mg/Kg	8270C LL
Dibenzofuran	0.0167	0.00178	mg/Kg	8270C LL
Diethyl phthalate	0.0667	0.00843	mg/Kg	8270C LL
Dimethyl phthalate	0.0667	0.00489	mg/Kg	8270C LL
Di-n-butyl phthalate	0.0667	0.00259	mg/Kg	8270C LL
Di-n-octyl phthalate	0.0667	0.00190	mg/Kg	8270C LL
Fluoranthene	0.0167	0.00311	mg/Kg	8270C LL
Fluorene	0.0167	0.00236	mg/Kg	8270C LL
Hexachlorobenzene	0.0167	0.00152	mg/Kg	8270C LL
Hexachlorobutadiene	0.0167	0.00192	mg/Kg	8270C LL
Hexachlorocyclopentadiene	0.0167	0.00461	mg/Kg	8270C LL
Hexachloroethane	0.0167	0.00231	mg/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	0.0167	0.00350	mg/Kg	8270C LL
Isophorone	0.0167	0.00100	mg/Kg	8270C LL
Naphthalene	0.0167	0.00135	mg/Kg	8270C LL
Nitrobenzene	0.0167	0.00296	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
N-Nitrosodimethylamine	0.0167	0.00419	mg/Kg	8270C LL
N-Nitrosodi-n-propylamine	0.0167	0.00222	mg/Kg	8270C LL
N-Nitrosodiphenylamine	0.0167	0.00189	mg/Kg	8270C LL
Pentachlorophenol	0.167	0.00400	mg/Kg	8270C LL
Phenanthrene	0.0167	0.00495	mg/Kg	8270C LL
Phenol	0.0167	0.00424	mg/Kg	8270C LL
Pyrene	0.0167	0.00183	mg/Kg	8270C LL

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Barium	1.00	0.0300	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Chromium	0.500	0.0506	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Selenium	2.00	0.259	mg/Kg	6010B
Silver	0.500	0.119	mg/Kg	6010B

Method: 7471A - Mercury (CVAA)

Analyte	MQL	MDL	Units	Method
Mercury	0.0500	0.00358	mg/Kg	7471A

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Analysis Batch: 105753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	8260B	
600-72755-15 MS	2013-RMSB-4 (0-2)	Total/NA	Solid	8260B	
600-72755-15 MSD	2013-RMSB-4 (0-2)	Total/NA	Solid	8260B	
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	8260B	
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	8260B	
LCS 600-105753/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-105753/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 105736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	3550B	
600-72755-15 MS	2013-RMSB-4 (0-2)	Total/NA	Solid	3550B	
600-72755-15 MSD	2013-RMSB-4 (0-2)	Total/NA	Solid	3550B	
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	3550B	
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	3550B	
LCS 600-105736/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-105736/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 105855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	8270C LL	105736
600-72755-15 MS	2013-RMSB-4 (0-2)	Total/NA	Solid	8270C LL	105736
600-72755-15 MSD	2013-RMSB-4 (0-2)	Total/NA	Solid	8270C LL	105736
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	8270C LL	105736
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	8270C LL	105736
LCS 600-105736/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	105736
MB 600-105736/1-A	Method Blank	Total/NA	Solid	8270C LL	105736

Metals

Prep Batch: 105694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-2	2013-RMSB-5 (2-5)	Total/NA	Solid	3050B	
600-72755-2 - DL	2013-RMSB-5 (2-5)	Total/NA	Solid	3050B	
600-72755-3	2013-RMSB-5 (5-7)	Total/NA	Solid	3050B	
600-72755-3 - DL	2013-RMSB-5 (5-7)	Total/NA	Solid	3050B	
600-72755-4	2013-RMSB-5 (9)	Total/NA	Solid	3050B	
600-72755-5	DUP-13	Total/NA	Solid	3050B	
600-72755-5 DU	DUP-13	Total/NA	Solid	3050B	
600-72755-5 MS	DUP-13	Total/NA	Solid	3050B	
600-72755-5 MSD	DUP-13	Total/NA	Solid	3050B	
600-72755-6	2013-RMSB-9 (1.3-2)	Total/NA	Solid	3050B	
600-72755-7	2013-RMSB-9 (2-2.5)	Total/NA	Solid	3050B	
600-72755-8	2013-RMSB-9 (5-7)	Total/NA	Solid	3050B	
600-72755-9	2013-RMSB-9 (8)	Total/NA	Solid	3050B	
600-72755-10	2013-RMSB-6 (1.3-2)	Total/NA	Solid	3050B	
600-72755-11	2013-RMSB-6 (2-2.5)	Total/NA	Solid	3050B	
600-72755-12	2013-RMSB-6 (5-7)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 105694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-13	2013-RMSB-6 (7.5)	Total/NA	Solid	3050B	
600-72755-14	DUP-14	Total/NA	Solid	3050B	
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	3050B	
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	3050B	
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	3050B	
600-72755-18	2013-WMU14-1 (0.9-2)	Total/NA	Solid	3050B	
600-72755-18 - DL	2013-WMU14-1 (0.9-2)	Total/NA	Solid	3050B	
LCSSRM 600-105694/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105694/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 105718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-1	2013-RMSB-5 (1.3-2)	Total/NA	Solid	3050B	
600-72755-1 DU	2013-RMSB-5 (1.3-2)	Total/NA	Solid	3050B	
600-72755-1 MS	2013-RMSB-5 (1.3-2)	Total/NA	Solid	3050B	
600-72755-1 MSD	2013-RMSB-5 (1.3-2)	Total/NA	Solid	3050B	
600-72755-21	DUP-15	Total/NA	Solid	3050B	
600-72755-21 - DL	DUP-15	Total/NA	Solid	3050B	
LCSSRM 600-105718/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105718/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-2	2013-RMSB-5 (2-5)	Total/NA	Solid	6010B	105694
600-72755-3	2013-RMSB-5 (5-7)	Total/NA	Solid	6010B	105694
600-72755-4	2013-RMSB-5 (9)	Total/NA	Solid	6010B	105694
600-72755-5	DUP-13	Total/NA	Solid	6010B	105694
600-72755-5 DU	DUP-13	Total/NA	Solid	6010B	105694
600-72755-5 MS	DUP-13	Total/NA	Solid	6010B	105694
600-72755-5 MSD	DUP-13	Total/NA	Solid	6010B	105694
600-72755-6	2013-RMSB-9 (1.3-2)	Total/NA	Solid	6010B	105694
600-72755-7	2013-RMSB-9 (2-2.5)	Total/NA	Solid	6010B	105694
600-72755-8	2013-RMSB-9 (5-7)	Total/NA	Solid	6010B	105694
600-72755-9	2013-RMSB-9 (8)	Total/NA	Solid	6010B	105694
600-72755-10	2013-RMSB-6 (1.3-2)	Total/NA	Solid	6010B	105694
600-72755-11	2013-RMSB-6 (2-2.5)	Total/NA	Solid	6010B	105694
600-72755-12	2013-RMSB-6 (5-7)	Total/NA	Solid	6010B	105694
600-72755-13	2013-RMSB-6 (7.5)	Total/NA	Solid	6010B	105694
600-72755-14	DUP-14	Total/NA	Solid	6010B	105694
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	6010B	105694
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	6010B	105694
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	6010B	105694
600-72755-18	2013-WMU14-1 (0.9-2)	Total/NA	Solid	6010B	105694
LCSSRM 600-105694/2-A	Lab Control Sample	Total/NA	Solid	6010B	105694
MB 600-105694/1-A	Method Blank	Total/NA	Solid	6010B	105694

Prep Batch: 105732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	7471A	
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	7471A	
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 105732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 600-105732/8-A ^100	Lab Control Sample	Total/NA	Solid	7471A	
MB 600-105732/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 105739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-2 - DL	2013-RMSB-5 (2-5)	Total/NA	Solid	6010B	105694
600-72755-3 - DL	2013-RMSB-5 (5-7)	Total/NA	Solid	6010B	105694
600-72755-18 - DL	2013-WMU14-1 (0.9-2)	Total/NA	Solid	6010B	105694

Analysis Batch: 105744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	7471A	105732
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	7471A	105732
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	7471A	105732
LCSSRM 600-105732/8-A ^100	Lab Control Sample	Total/NA	Solid	7471A	105732
MB 600-105732/7-A	Method Blank	Total/NA	Solid	7471A	105732

Analysis Batch: 105763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-1	2013-RMSB-5 (1.3-2)	Total/NA	Solid	6010B	105718
600-72755-1 DU	2013-RMSB-5 (1.3-2)	Total/NA	Solid	6010B	105718
600-72755-1 MS	2013-RMSB-5 (1.3-2)	Total/NA	Solid	6010B	105718
600-72755-1 MSD	2013-RMSB-5 (1.3-2)	Total/NA	Solid	6010B	105718
600-72755-21	DUP-15	Total/NA	Solid	6010B	105718
600-72755-21 - DL	DUP-15	Total/NA	Solid	6010B	105718
LCSSRM 600-105718/2-A	Lab Control Sample	Total/NA	Solid	6010B	105718
MB 600-105718/1-A	Method Blank	Total/NA	Solid	6010B	105718

General Chemistry

Analysis Batch: 105689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-1	2013-RMSB-5 (1.3-2)	Total/NA	Solid	Moisture	
600-72755-1 MS	2013-RMSB-5 (1.3-2)	Total/NA	Solid	Moisture	
600-72755-1 MSD	2013-RMSB-5 (1.3-2)	Total/NA	Solid	Moisture	
600-72755-2	2013-RMSB-5 (2-5)	Total/NA	Solid	Moisture	
600-72755-3	2013-RMSB-5 (5-7)	Total/NA	Solid	Moisture	
600-72755-4	2013-RMSB-5 (9)	Total/NA	Solid	Moisture	
600-72755-5	DUP-13	Total/NA	Solid	Moisture	
600-72755-6	2013-RMSB-9 (1.3-2)	Total/NA	Solid	Moisture	
600-72755-7	2013-RMSB-9 (2-2.5)	Total/NA	Solid	Moisture	
600-72755-7 DU	2013-RMSB-9 (2-2.5)	Total/NA	Solid	Moisture	
600-72755-8	2013-RMSB-9 (5-7)	Total/NA	Solid	Moisture	
600-72755-9	2013-RMSB-9 (8)	Total/NA	Solid	Moisture	
600-72755-10	2013-RMSB-6 (1.3-2)	Total/NA	Solid	Moisture	
600-72755-11	2013-RMSB-6 (2-2.5)	Total/NA	Solid	Moisture	
600-72755-12	2013-RMSB-6 (5-7)	Total/NA	Solid	Moisture	
600-72755-13	2013-RMSB-6 (7.5)	Total/NA	Solid	Moisture	
600-72755-14	DUP-14	Total/NA	Solid	Moisture	
600-72755-15	2013-RMSB-4 (0-2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 105689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-16	2013-RMSB-4 (2-5)	Total/NA	Solid	Moisture	
600-72755-17	2013-RMSB-4 (5-6)	Total/NA	Solid	Moisture	
600-72755-17 DU	2013-RMSB-4 (5-6)	Total/NA	Solid	Moisture	
600-72755-18	2013-WMU14-1 (0.9-2)	Total/NA	Solid	Moisture	
600-72755-21	DUP-15	Total/NA	Solid	Moisture	

Client Sample ID: 2013-RMSB-5 (1.3-2)

Lab Sample ID: 600-72755-1

Date Collected: 05/07/13 10:18
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105718	05/08/13 16:25	NER	TAL HOU
Total/NA	Analysis	6010B		1	105763	05/09/13 11:49	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-5 (2-5)

Lab Sample ID: 600-72755-2

Date Collected: 05/07/13 10:19
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 21:45	DCL	TAL HOU
Total/NA	Prep	3050B	DL		105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	105739	05/09/13 09:32	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-5 (5-7)

Lab Sample ID: 600-72755-3

Date Collected: 05/07/13 10:20
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 21:47	DCL	TAL HOU
Total/NA	Prep	3050B	DL		105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	105739	05/09/13 09:35	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-5 (9)

Lab Sample ID: 600-72755-4

Date Collected: 05/07/13 10:21
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 21:50	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: DUP-13

Lab Sample ID: 600-72755-5

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 21:52	DCL	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Client Sample ID: DUP-13

Lab Sample ID: 600-72755-5

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-9 (1.3-2)

Lab Sample ID: 600-72755-6

Date Collected: 05/07/13 11:04
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:10	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-9 (2-2.5)

Lab Sample ID: 600-72755-7

Date Collected: 05/07/13 11:05
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:12	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-9 (5-7)

Lab Sample ID: 600-72755-8

Date Collected: 05/07/13 11:06
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-9 (8)

Lab Sample ID: 600-72755-9

Date Collected: 05/07/13 11:07
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-6 (1.3-2)

Lab Sample ID: 600-72755-10

Date Collected: 05/07/13 11:51
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-6 (2-2.5)

Lab Sample ID: 600-72755-11

Date Collected: 05/07/13 11:52
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-6 (5-7)

Lab Sample ID: 600-72755-12

Date Collected: 05/07/13 11:53
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-6 (7.5)

Lab Sample ID: 600-72755-13

Date Collected: 05/07/13 11:54
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 69.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:27	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: DUP-14

Lab Sample ID: 600-72755-14

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:36	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-4 (0-2)

Lab Sample ID: 600-72755-15

Date Collected: 05/07/13 12:43
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105753	05/08/13 15:31	WS	TAL HOU
Total/NA	Prep	3550B			105736	05/09/13 08:39	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	105855	05/10/13 01:08	JH	TAL HOU
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:38	DCL	TAL HOU
Total/NA	Prep	7471A			105732	05/09/13 07:05	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105744	05/09/13 09:00	MJT	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-4 (2-5)

Lab Sample ID: 600-72755-16

Date Collected: 05/07/13 12:44
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105753	05/08/13 15:55	WS	TAL HOU
Total/NA	Prep	3550B			105736	05/09/13 08:39	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	105855	05/10/13 02:27	JH	TAL HOU
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:41	DCL	TAL HOU
Total/NA	Prep	7471A			105732	05/09/13 07:05	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105744	05/09/13 09:02	MJT	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: 2013-RMSB-4 (5-6)

Lab Sample ID: 600-72755-17

Date Collected: 05/07/13 12:45
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105753	05/08/13 16:19	WS	TAL HOU
Total/NA	Prep	3550B			105736	05/09/13 08:39	ET	TAL HOU
Total/NA	Analysis	8270C LL		1	105855	05/10/13 02:54	JH	TAL HOU
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:43	DCL	TAL HOU
Total/NA	Prep	7471A			105732	05/09/13 07:05	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105744	05/09/13 09:03	MJT	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Client Sample ID: 2013-WMU14-1 (0.9-2)

Lab Sample ID: 600-72755-18

Date Collected: 05/07/13 14:54
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	105731	05/08/13 22:45	DCL	TAL HOU
Total/NA	Prep	3050B	DL		105694	05/08/13 13:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	50	105739	05/09/13 09:37	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Client Sample ID: DUP-15

Lab Sample ID: 600-72755-21

Date Collected: 05/07/13 00:00
Matrix: Solid
Date Received: 05/08/13 09:31
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105718	05/08/13 16:25	NER	TAL HOU
Total/NA	Analysis	6010B		1	105763	05/09/13 11:59	DCL	TAL HOU
Total/NA	Prep	3050B	DL		105718	05/08/13 16:25	NER	TAL HOU
Total/NA	Analysis	6010B	DL	50	105763	05/09/13 13:26	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105689	05/08/13 12:53	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243490
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2201 Double Creek Dr. Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Cd	Pb	RCRA Metals	MS/MSD	Special Instructions/ Conditions of Receipt
2013-RMSB-5 (1.3-2)	5/7/13	10.18				X							X	X	X		X	
2013-RMSB-5 (2-5)		1019												X	X			
2013-RMSB-5 (5-7)		1020												X	X			
2013-RMSD-5 (9)		1021												X	X			
DUP-13		--												X	X			
2013-RMSB-9 (1.3-2)		1104												X	X	PF		
2013-RMSB-9 (2-2.5)		1105												X	X	PF		
2013-RMSB-9 (5-7)		1106												X	X	PF		
2013-RMSB-9 (8)		1107												X	X	PF		
2013-RMSB-6 (1.3-2)		1151												X	X			
2013-RMSB-6 (2-2.5)		1152												X	X			
2013-RMSB-6 (5-7)		1153												X	X			

600-72755 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: D. Fouell	5/7/13	1500	1. Received By: McCown	5/7/13	1500
2. Relinquished By: McCown	5/7/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:	05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243486
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. Suite 4004	512.671.3434		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb, Cd	RCRA Metals	VOCs	SVOCs	Special Instructions/ Conditions of Receipt
2013-RMSB-6(7.5)	5/7/13	1154				X							X	X				
DUP-14		--												↓				
2013-RMSB-4(0-2)		1243											2		X	X	X	
2013-RMSB-4(2-5)		1244											2					
2013-RMSB-4(5-6) PF		1245											2					
~~2013-RMSB-4(0)~~ PF																		
2013-WMU14-1(0.9-2)		~~1454~~ 14.54												X				
2013-WMU14-1(2-4)		14.55																HOLD
2013-WMU14-1(4-5)		1456																HOLD
DUP-15		~~1457~~												X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	P. Ferrell	5/7/13	1500	McCowen	5/7/13	1500
2.	McCowen	5/7/13	1730			
3.					05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-1

Login Number: 72755

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72755-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/29/2013 6:23:41 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 20

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72755-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/29/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/27/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/27/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/27/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank for batch 106775. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	The laboratory selected a sample from another group to perform as the DUP.
4	The lead SDL was elevated in samples 72755-19 due to the dilution necessary to bring this analyte to within linear dynamic range.
5	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72755-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72755-2

Comments
No additional comments.

Receipt
The samples were received on 5/8/2013 9:31 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72755-19	2013-WMU14-1 (2-4)	Solid	05/07/13 14:55	05/08/13 09:31

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Client Sample ID: 2013-WMU14-1 (2-4)
Date Collected: 05/07/13 14:55
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-19
Matrix: Solid
Percent Solids: 83.5

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31400	b	55.5	11.6	mg/Kg	☼	05/23/13 09:57	05/23/13 15:29	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			05/22/13 12:58	1
Percent Solids	83		1.0	1.0	%			05/22/13 12:58	1

Qualifiers

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-106775/1-A
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106775

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.1100	J	0.500	0.105	mg/Kg		05/23/13 09:57	05/23/13 13:27	1

Lab Sample ID: LCSSRM 600-106775/2-A
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106775

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	74.75		mg/Kg		97.2	81.3 - 118.7

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Metals

Prep Batch: 106775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-19 - DL	2013-WMU14-1 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-106775/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-106775/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 106793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-19 - DL	2013-WMU14-1 (2-4)	Total/NA	Solid	6010B	106775
LCSSRM 600-106775/2-A	Lab Control Sample	Total/NA	Solid	6010B	106775
MB 600-106775/1-A	Method Blank	Total/NA	Solid	6010B	106775

General Chemistry

Analysis Batch: 106681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-19	2013-WMU14-1 (2-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Client Sample ID: 2013-WMU14-1 (2-4)
Date Collected: 05/07/13 14:55
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-19
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		106775	05/23/13 09:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	100	106793	05/23/13 15:29	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106681	05/22/13 12:58	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243490
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2201 Double Creek Dr. Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Cd	Pb	RCRA Metals	MS/MSD	Special Instructions/ Conditions of Receipt
2013-RMSB-5 (1.3-2)	5/7/13	10.18				X							X	X	X		X	
2013-RMSB-5 (2-5)		1019												X	X			
2013-RMSB-5 (5-7)		1020												X	X			
2013-RMSD-5 (9)		1021												X	X			
DUP-13		--												X	X			
2013-RMSB-9 (1.3-2)		1104												X	X	PP		
2013-RMSB-9 (2-2.5)		1105												X	X	PP		
2013-RMSB-9 (5-7)		1106												X	X	PP		
2013-RMSB-9 (8)		1107												X	X	PP		
2013-RMSB-6 (1.3-2)		1151												X	X			
2013-RMSB-6 (2-2.5)		1152												X	X			
2013-RMSB-6 (5-7)		1153												X	X			

600-72755 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: D. Fouell	5/7/13	1500	1. Received By: McCown	5/7/13	1500
2. Relinquished By: McCown	5/7/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:	05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/29/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243486
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. Suite 4004	512.671.3434		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb, Cd	RCRA Metals	VOCs	SVOCs	Special Instructions/ Conditions of Receipt
2013-RMSB-6(7.5)	5/7/13	1154				X							X	X				
DUP-14		--																
2013-RMSB-4(0-2)		1243											2		X	X	X	
2013-RMSB-4(2-5)		1244											2					
2013-RMSB-4(5-6) PF		1245											2					
~~2013-RMSB-4(0)~~ PF																		
2013-WMU14-1(0.9-2)		~~1453~~ 14.54												X				
2013-WMU14-1(2-4)		14.55																HOLD
2013-WMU14-1(4-5)		1456																HOLD
DUP-15		~~1457~~												X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	P. Ferrell	5/7/13	1500	McCowen	5/7/13	1500
2.	McCowen	5/7/13	1730			
3.					05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/29/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-2

Login Number: 72755

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72755-3
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/30/2013 2:41:03 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 20

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72755-3

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/30/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-3
Reviewer Name: TWR	Prep Batch Number(s): 600-107103- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-3
Reviewer Name: TWR	Prep Batch Number(s): 600-107103- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72755-3
Reviewer Name: TWR	Prep Batch Number(s): 600-107103- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The lead SDL was elevated in samples 72755-20 due to the dilution necessary to bring this analyte to within linear dynamic range.
4	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72755-3

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72755-3

Comments
No additional comments.

Receipt
The samples were received on 5/8/2013 9:31 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.7º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72755-20	2013-WMU14-1 (4-5)	Solid	05/07/13 14:56	05/08/13 09:31

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Client Sample ID: 2013-WMU14-1 (4-5)
Date Collected: 05/07/13 14:56
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-20
Matrix: Solid
Percent Solids: 74.5

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3470		6.46	1.35	mg/Kg	☼	05/29/13 09:57	05/29/13 17:56	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		1.0	1.0	%			05/28/13 17:32	1
Percent Solids	74		1.0	1.0	%			05/28/13 17:32	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-107103/1-A
Matrix: Solid
Analysis Batch: 107081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107103

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		05/29/13 09:57	05/29/13 14:12	1

Lab Sample ID: LCSSRM 600-107103/2-A
Matrix: Solid
Analysis Batch: 107081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107103

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			76.9	75.87		mg/Kg		98.7	81.3 - 118.7		

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Metals

Analysis Batch: 107081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 600-107103/2-A	Lab Control Sample	Total/NA	Solid	6010B	107103
MB 600-107103/1-A	Method Blank	Total/NA	Solid	6010B	107103

Prep Batch: 107103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-20 - DL	2013-WMU14-1 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-107103/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-107103/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 107188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-20 - DL	2013-WMU14-1 (4-5)	Total/NA	Solid	6010B	107103

General Chemistry

Analysis Batch: 107068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72755-20	2013-WMU14-1 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72755-3

Client Sample ID: 2013-WMU14-1 (4-5)
Date Collected: 05/07/13 14:56
Date Received: 05/08/13 09:31

Lab Sample ID: 600-72755-20
Matrix: Solid
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		107103	05/29/13 09:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	107188	05/29/13 17:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	107068	05/28/13 17:32	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
TestAmerica Job ID: 600-72755-3
Project/Site: Exide Recycling Center, Frisco TX Projec

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243490
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2201 Double Creek Dr. Suite 4004	512-671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Cd	Pb	RCRA Metals	MS/MSD	Special Instructions/ Conditions of Receipt
2013-RMSB-5 (1.3-2)	5/7/13	10.18				X							X	X	X		X	
2013-RMSB-5 (2-5)		1019												X	X			
2013-RMSB-5 (5-7)		1020												X	X			
2013-RMSD-5 (9)		1021												X	X			
DUP-13		--												X	X			
2013-RMSB-9 (1.3-2)		1104												X	X	PP		
2013-RMSB-9 (2-2.5)		1105												X	X	PP		
2013-RMSB-9 (5-7)		1106												X	X	PP		
2013-RMSB-9 (8)		1107												X	X	PP		
2013-RMSB-6 (1.3-2)		1151												X	X			
2013-RMSB-6 (2-2.5)		1152												X	X			
2013-RMSB-6 (5-7)		1153												X	X			

600-72755 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: D. Fouell	5/7/13	1500	1. Received By: McCown	5/7/13	1500
2. Relinquished By: McCown	5/7/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:	05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243486
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. Suite 4004	512.671.3434		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb, Cd	RCRA Metals	VOCs	SVOCs	Special Instructions/ Conditions of Receipt
2013-RMSB-6(7.5)	5/7/13	1154				X							X	X				
DUP-14		--																
2013-RMSB-4(0-2)		1243											2		X	X	X	
2013-RMSB-4(2-5)		1244											2					
2013-RMSB-4(5-6) PF		1245											2					
~~2013-RMSB-4(0)~~ PF																		
2013-WMU14-1(0.9-2)		~~1453~~ 14.54												X				
2013-WMU14-1(2-4)		14.55																HOLD
2013-WMU14-1(4-5)		1456																HOLD
DUP-15		~~1457~~												X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	P. Ferrell	5/7/13	1500	McCowen	5/7/13	1500
2.	McCowen	5/7/13	1730			
3.					05/08/13	0931

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/30/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72755-3

Login Number: 72755

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72840-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/30/2013 8:37:54 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 22
Method Summary 23
Sample Summary 24
Client Sample Results 25
Definitions/Glossary 35
Surrogate Summary 36
QC Sample Results 37
Default Detection Limits 46
QC Association Summary 49
Lab Chronicle 52
Certification Summary 56
Chain of Custody 57
Receipt Checklists 59

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72840-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/30/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105785- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105785- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			6
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105785- ICP

ER #[1]	DESCRIPTION
1	Barium was detected above the MDL, but below the MQL in the prep blank for batch 105785. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recoveries in samples 72840-1 MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. The arsenic recovery in sample 72840-1 MSD and the lead recovery in sample 72840-22 MS were above acceptance limits due to matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
3	The lead RPD between samples 72840-1 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
4	The lead, cadmium and arsenic RPDs between samples 72840-1 and 72840-1 MD were above acceptance limits due to the non-homogenous nature of the samples.
5	The lead SDLs were elevated in samples 72840-1 and 15 due to the dilution necessary to bring this analyte to within linear dynamic range.
6	The chromium percent difference between samples 72840-22 and 72840-22 SD was above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	1
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840
Reviewer Name: TWR	Prep Batch Number(s): 600-105732- Mercury

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72840
Reviewer Name: YX	Prep Batch Number: 600-105880-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		2
		Were MS/MSD RPDs within laboratory QC limits?			X		2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72840
Reviewer Name: YX	Prep Batch Number: 600-105880-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72840
Reviewer Name: YX	Prep Batch Number: 600-105880-VOA

ER #[1]	DESCRIPTION
1	Chloroform was detected above the MDL, but below the MQL in the method blank for batch 600-105880. The level of detection is below the recommended reporting limit and the appropriate flags have been applied to the report.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	All of the SDLs were elevated in sample 600-72840-23 due to the nature of the sample matrix.
4	The laboratory is not NELAC certified for Bromomethane. Recertification is in progress.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72840
Reviewer Name: JOH	Prep Batch Number(s): 600-105792 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		1
		Were MS/MSD RPDs within laboratory QC limits?			X		1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72840
Reviewer Name: JOH	Prep Batch Number(s): 600-105792 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?		X			3
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/20/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72840
Reviewer Name: JOH	Prep Batch Number(s): 600-105792 - SV

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The 2-Methylnaphthalene SDL in sample 600-72840-23 was elevated due to the high concentration of this analyte.
3	The continuing calibration verification (CCV) for analytical batch 105913 exceeded control criteria for Benzidine (-75.8%). The SOP allows for up to four non-CCC analytes to have a %drift greater than the acceptable limit. The data have been qualified and reported.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 2/14/2013
Date Prepared: 2/14/2013
TALs Batches: 99613
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Chloromethane	1.66	5	3.47	10
Vinyl Chloride	0.9	5	1.06	10
Bromomethane	1.78	5	0.922	10
Chloroethane	1.4	5	0	10
1,1-Dichloroethene	1.22	5	3.23	5
trans-1,2-Dichloroethene	1.14	5	3.72	5
Acetone	1.66	5	5.94	10
Methylene Chloride	2.19	5	4.55	10
Methyl tert-butyl ether	1.83	5	3.35	5
cis-1,2-Dichloroethene	0.83	5	4.54	5
2-Butanone (MEK)	1.9	5	11.1	10
Carbon Tetrachloride	1.13	5	3.43	5
Benzene	0.63	5	4.33	5
1,2-Dichloroethane	0.9	5	3.98	5
Trichloroethene	1.4	5	4.19	5
1,1,1-Trichloroethane	0.74	5	3.43	5
1,1-Dichloroethane	0.87	5	2.79	5
1,2-Dichloropropane	0.71	5	4.58	5
1,4-Dioxane	62.07	12.5	522	500
cis-1,3-Dichloropropene	0.54	5	4.5	5
4-Methyl-2-pentanone	1.47	5	10.3	10
Toluene	1.38	5	4.35	5
trans-1,3-Dichloropropene	0.58	5	3.78	5
1,1,2-Trichloroethane	0.73	5	4.88	5
Tetrachloroethene	1.4	5	3.84	5
2-Hexanone	1.01	5	9.16	10
Chlorodibromomethane	0.94	5	3.95	5
Chlorobenzene	0.96	5	4.64	5
Ethylbenzene	1.02	5	4.51	5
o-Xylene	1.13	5	4.64	5
Xylenes (total)	1.13	5	13.8	5
Styrene	0.71	5	4.45	5
Bromoform	1.37	5	4.54	5
1,1,2,2-Tetrachloroethane	0.87	5	5.75	5
1,3,5-Trimethylbenzene	1.6	5	3.92	5
1,2,4-Trimethylbenzene	0.92	5	4.18	5
sec-Butylbenzene	0.7	5	4.1	5
n-Butylbenzene	0.58	5	4.09	5
Naphthalene	2.37	5	33.05	10

Chloroform	5.74	5	3.75	5
1,2 Dichloroethene, Total	1.9	5	8.27	5
Carbon Disulfide	0.55	5	6.4	5
Dichlorobromomethane	0.66	5	4.3	5
m-Xylene & P-Xylene	1.52	5	9.19	10

Quality Control Report

Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	1/7/2013
Date Prepared:	1/7/2013
Lab Sample ID:	600-96737/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	83.5	26.97	16.67
N-Nitrosodimethylamine	4.19	8.35	7.960	16.67
bis (2-Chloroisopropyl) ether	8.84	8.35	8.390	16.67
Aniline	2.98	83.5	4.66	16.67
Phenol	4.24	8.35	5.661	16.67
bis(2-Chloroethyl)ether	1.65	8.35	8.591	16.67
2-Chlorophenol	1.97	8.35	6.460	16.67
1,3-Dichlorobenzene	1.54	8.35	7.825	16.67
1,4-Dichlorobenzene	2.25	8.35	10.422	16.67
1,2-Dichlorobenzene	3.02	8.35	10.622	16.67
Benzyl alcohol	5.83	8.35	5.461	16.67
2-Methylphenol (o-cresol)	3.23	8.35	6.860	16.67
3&4 Methylphenol (m&p-cresols)	2.79	8.35	3.296	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	8.857	16.67
Hexachloroethane	2.31	8.35	9.423	16.67
Dibenzo(a,h)anthracene	3.63	8.35	31.102	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	31.068	16.67
Nitrobenzene	2.96	8.35	8.857	16.67
Isophorone	1	8.35	7.425	16.67
2-Nitrophenol	3.86	8.35	16.150	16.67
Benzoic acid	32.76	167	323.34	16.67
2,4-Dimethylphenol	8.58	8.35	3.663	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	7.925	16.67
2,4-Dichlorophenol	3.87	8.35	4.762	16.67
1,2,4-Trichlorobenzene	2.1	8.35	10.589	16.67
Naphthalene	1.35	8.35	7.725	16.67
Benzo(a)pyrene	1.61	8.35	11.288	16.67
Hexachlorobutadiene	1.92	8.35	9.723	16.67
4-Chloro-3-methylphenol	15.58	8.35	7.659	16.67
2-Methylnaphthalene	2.74	8.35	7.792	16.67
1-Methylnaphthalene	1.57	8.35	9.190	16.67
Benzo(k)fluoranthene	1.49	8.35	8.391	16.67
Hexachlorocyclopentadiene	4.61	8.35	10.656	16.67
2,4,6-Trichlorophenol	2.68	8.35	11.954	16.67
2,4,5-Trichlorophenol	10.01	8.35	15.417	16.67
2-Chloronaphthalene	1.21	8.35	7.359	16.67
2-Nitroaniline	4.89	8.35	23.576	16.67
1,4-Dinitrobenzene	16.67	8.35	30.103	16.67
1,3-Dinitrobenzene	2.96	8.35	23.576	16.67
1,2-Dinitrobenzene	16.67	8.35	17.082	16.67

Dimethylphthalate	4.89	8.35	7.992	16.67
Acenaphthylene	1	8.35	7.026	16.67
2,6-Dinitrotoluene	2.95	8.35	16.084	16.67
Benzo(b)fluoranthene	1.72	8.35	20.013	16.67
Acenaphthene	1.44	8.35	8.158	16.67
Di-n-octylphthalate	1.9	8.35	63.930	16.67
4-Nitrophenol	5.08	83.5	81.25	16.67
Dibenzofuran	1.78	8.35	8.025	16.67
2,4-Dinitrotoluene	3.61	8.35	14.552	16.67
2,3,4,6-Tetrachlorophenol	16.67	8.35	14.452	16.67
2,3,5,6-Tetrachlorophenol	16.67	8.35	13.486	16.67
Diethylphthalate	8.43	8.35	19.147	16.67
4-Chlorophenyl-phenylether	1.8	8.35	9.091	16.67
Fluorene	2.36	8.35	9.057	16.67
4-Nitroaniline	11.15	16.7	35.630	16.67
Chrysene	1.02	8.35	9.257	16.67
4,6-Dinitro-2-methylphenol	4.98	83.5	39.96	16.67
N-Nitrosodiphenylamine	1.98	83.5	5.33	16.67
Diphenylamine	1.94	83.5	5.33	16.67
1,2-Diphenylhydrazine	1.62	8.35	6.093	16.67
Azobenzene	1.85	8.35	6.626	16.67
4-Bromophenyl-phenylether	2.84	8.35	8.691	16.67
Hexachlorobenzene	1.52	16.7	16.680	16.67
Pentachlorophenol	4	8.35	55.944	16.67
Phenanthrene	4.95	8.35	8.558	16.67
Anthracene	1.28	8.35	6.826	16.67
Carbazole	3.12	8.35	6.027	16.67
Di-n-butylphthalate	2.59	8.35	19.580	16.67
Fluoranthene	3.11	8.35	7.958	16.67
Benzidine	9.02	16.7		16.67
Pyrene	1.83	8.35	8.857	16.67
Butylbenzylphthalate	6.19	8.35	28.338	16.67
3,3'-Dichlorobenzidine	10.16	8.35		16.67
Benzo(a)anthracene	1.38	8.35	9.257	16.67
bis(2-Ethylhexyl)phthalate	5.37	8.35	34.632	16.67
Benzo(g,h,i)perylene	5.07	8.35	15.318	16.67
4-Chloroaniline	5.82	8.35	2.630	16.67
3-Nitroaniline	7.15	8.35	19.913	16.67
2,4-Dinitrophenol	16.67	8.35		16.67

Detection Check Standard

Matrix:	Soil
Method:	7471
Preparation:	7471p
Date Analyzed:	2/14/2013
Date Prepared:	2/13/2013
Instrument:	FIMS100
TALS Batches:	99546, 99447p
Prep/Reagent Factor =	83.33
Units:	ug/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Mercury	3.58	8.33	8.75	50

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72840-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72840-1

Comments
No additional comments.

Receipt
The samples were received on 5/9/2013 8:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.8º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72840-1	2013-WMU6-1 (0.9-2)	Solid	05/07/13 15:27	05/09/13 08:38
600-72840-4	2013-WMU14-2 (0.9-2)	Solid	05/07/13 15:54	05/09/13 08:38
600-72840-7	2013-WMU16-1 (0.9-2)	Solid	05/07/13 16:11	05/09/13 08:38
600-72840-10	2013-WMU14-3 (0.9-2)	Solid	05/07/13 16:34	05/09/13 08:38
600-72840-13	2013-STB-9 (5-5.5)	Solid	05/07/13 16:50	05/09/13 08:38
600-72840-14	2013-RMSB-8 (2.1-3.1)	Solid	05/08/13 10:42	05/09/13 08:38
600-72840-15	2013-RMSB-8 (5-7)	Solid	05/08/13 10:43	05/09/13 08:38
600-72840-16	2013-RMSB-8 (7.5)	Solid	05/08/13 10:44	05/09/13 08:38
600-72840-17	2013-RMSB-1 (1.5-2)	Solid	05/08/13 12:10	05/09/13 08:38
600-72840-18	2013-RMSB-1 (2-5)	Solid	05/08/13 12:11	05/09/13 08:38
600-72840-19	2013-RMSB-1 (5-5.5)	Solid	05/08/13 12:12	05/09/13 08:38
600-72840-20	2013-RMSB-1 (6)	Solid	05/08/13 12:13	05/09/13 08:38
600-72840-21	DUP 16	Solid	05/08/13 00:00	05/09/13 08:38
600-72840-22	2013-RMSB-2 (2.5-5)	Solid	05/08/13 13:42	05/09/13 08:38
600-72840-23	2013-RMSB-2 (5-6)	Solid	05/08/13 13:43	05/09/13 08:38

Client Sample ID: 2013-WMU6-1 (0.9-2)

Lab Sample ID: 600-72840-1

Date Collected: 05/07/13 15:27
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.41		0.266	0.0273	mg/Kg	☼	05/09/13 13:32	05/10/13 11:58	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10800		5.32	1.11	mg/Kg	☼	05/09/13 13:32	05/10/13 16:09	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	86		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-WMU14-2 (0.9-2)

Lab Sample ID: 600-72840-4

Date Collected: 05/07/13 15:54
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 79.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.52		0.290	0.0298	mg/Kg	☼	05/09/13 13:32	05/10/13 12:08	1
Lead	100		0.580	0.122	mg/Kg	☼	05/09/13 13:32	05/10/13 12:08	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	80		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-WMU16-1 (0.9-2)

Lab Sample ID: 600-72840-7

Date Collected: 05/07/13 16:11
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 80.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.415		0.288	0.0295	mg/Kg	☼	05/09/13 13:32	05/10/13 12:11	1
Lead	18.2		0.576	0.121	mg/Kg	☼	05/09/13 13:32	05/10/13 12:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	80		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-WMU14-3 (0.9-2)

Lab Sample ID: 600-72840-10

Date Collected: 05/07/13 16:34
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 79.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.357		0.297	0.0305	mg/Kg	☼	05/09/13 13:32	05/10/13 12:13	1
Lead	11.6		0.594	0.125	mg/Kg	☼	05/09/13 13:32	05/10/13 12:13	1
Arsenic	6.54		1.19	0.259	mg/Kg	☼	05/09/13 13:32	05/10/13 12:13	1

Client Sample ID: 2013-WMU14-3 (0.9-2)

Lab Sample ID: 600-72840-10

Date Collected: 05/07/13 16:34
Matrix: Solid
Date Received: 05/09/13 08:38

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	79		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-STB-9 (5-5.5)

Lab Sample ID: 600-72840-13

Date Collected: 05/07/13 16:50
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.467		0.315	0.0323	mg/Kg	☼	05/09/13 13:32	05/10/13 12:16	1
Lead	38.8		0.630	0.132	mg/Kg	☼	05/09/13 13:32	05/10/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	76		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-8 (2.1-3.1)

Lab Sample ID: 600-72840-14

Date Collected: 05/08/13 10:42
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 80.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.93		0.311	0.0319	mg/Kg	☼	05/09/13 13:32	05/10/13 12:25	1
Lead	314		0.622	0.130	mg/Kg	☼	05/09/13 13:32	05/10/13 12:25	1
Arsenic	16.3		1.24	0.271	mg/Kg	☼	05/09/13 13:32	05/10/13 12:25	1
Selenium	1.59	J	2.49	0.322	mg/Kg	☼	05/09/13 13:32	05/10/13 12:25	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	80		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-8 (5-7)

Lab Sample ID: 600-72840-15

Date Collected: 05/08/13 10:43
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	18.7		0.325	0.0333	mg/Kg	☼	05/09/13 13:32	05/10/13 12:28	1
Arsenic	36.9		1.30	0.283	mg/Kg	☼	05/09/13 13:32	05/10/13 12:28	1
Selenium	3.62		2.60	0.336	mg/Kg	☼	05/09/13 13:32	05/10/13 12:28	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4240		6.49	1.36	mg/Kg	☼	05/09/13 13:32	05/10/13 16:26	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	76		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-8 (7.5)

Lab Sample ID: 600-72840-16

Date Collected: 05/08/13 10:44
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.379		0.306	0.0313	mg/Kg	☼	05/09/13 13:32	05/10/13 12:30	1
Lead	23.0		0.611	0.128	mg/Kg	☼	05/09/13 13:32	05/10/13 12:30	1
Arsenic	10.7		1.22	0.266	mg/Kg	☼	05/09/13 13:32	05/10/13 12:30	1
Selenium	0.526	J	2.44	0.316	mg/Kg	☼	05/09/13 13:32	05/10/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	76		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-1 (1.5-2)

Lab Sample ID: 600-72840-17

Date Collected: 05/08/13 12:10
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 67.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	14.3		0.339	0.0347	mg/Kg	☼	05/09/13 13:32	05/10/13 12:33	1
Lead	1920		0.677	0.142	mg/Kg	☼	05/09/13 13:32	05/10/13 12:33	1
Arsenic	19.4		1.35	0.295	mg/Kg	☼	05/09/13 13:32	05/10/13 12:33	1
Selenium	0.351	U	2.71	0.351	mg/Kg	☼	05/09/13 13:32	05/10/13 12:33	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	68		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-1 (2-5)

Lab Sample ID: 600-72840-18

Date Collected: 05/08/13 12:11
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 72.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.265	J	0.324	0.0332	mg/Kg	☼	05/09/13 13:32	05/10/13 12:35	1
Lead	18.4		0.648	0.136	mg/Kg	☼	05/09/13 13:32	05/10/13 12:35	1
Arsenic	10.7		1.30	0.282	mg/Kg	☼	05/09/13 13:32	05/10/13 12:35	1
Selenium	0.335	U	2.59	0.335	mg/Kg	☼	05/09/13 13:32	05/10/13 12:35	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	73		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-1 (5-5.5)

Lab Sample ID: 600-72840-19

Date Collected: 05/08/13 12:12
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.37		0.312	0.0320	mg/Kg	☼	05/09/13 13:32	05/10/13 12:38	1
Lead	240		0.623	0.131	mg/Kg	☼	05/09/13 13:32	05/10/13 12:38	1
Arsenic	13.2		1.25	0.272	mg/Kg	☼	05/09/13 13:32	05/10/13 12:38	1

Client Sample ID: 2013-RMSB-1 (5-5.5)

Lab Sample ID: 600-72840-19

Date Collected: 05/08/13 12:12
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.741	J	2.49	0.323	mg/Kg	☼	05/09/13 13:32	05/10/13 12:38	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	75		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-1 (6)

Lab Sample ID: 600-72840-20

Date Collected: 05/08/13 12:13
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 74.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.460		0.324	0.0332	mg/Kg	☼	05/09/13 13:32	05/10/13 12:40	1
Lead	27.8		0.648	0.136	mg/Kg	☼	05/09/13 13:32	05/10/13 12:40	1
Arsenic	11.7		1.30	0.282	mg/Kg	☼	05/09/13 13:32	05/10/13 12:40	1
Selenium	0.661	J	2.59	0.335	mg/Kg	☼	05/09/13 13:32	05/10/13 12:40	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	75		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: DUP 16

Lab Sample ID: 600-72840-21

Date Collected: 05/08/13 00:00
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 71.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.463		0.341	0.0349	mg/Kg	☼	05/09/13 13:32	05/10/13 12:43	1
Lead	49.3		0.681	0.143	mg/Kg	☼	05/09/13 13:32	05/10/13 12:43	1
Arsenic	12.0		1.36	0.297	mg/Kg	☼	05/09/13 13:32	05/10/13 12:43	1
Selenium	0.715	J	2.73	0.353	mg/Kg	☼	05/09/13 13:32	05/10/13 12:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29		1.0	1.0	%			05/09/13 15:55	1
Percent Solids	71		1.0	1.0	%			05/09/13 15:55	1

Client Sample ID: 2013-RMSB-2 (2.5-5)

Lab Sample ID: 600-72840-22

Date Collected: 05/08/13 13:42
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 74.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.133		0.0134	0.00222	mg/Kg	☼		05/10/13 11:03	1
Benzene	0.000842	U	0.00668	0.000842	mg/Kg	☼		05/10/13 11:03	1
Chlorobromomethane	0.00238	U	0.00668	0.00238	mg/Kg	☼		05/10/13 11:03	1
Bromoform	0.00183	U	0.00668	0.00183	mg/Kg	☼		05/10/13 11:03	1
Bromomethane	0.00111	U	0.0134	0.00111	mg/Kg	☼		05/10/13 11:03	1
2-Butanone (MEK)	0.0157		0.0134	0.00254	mg/Kg	☼		05/10/13 11:03	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Client Sample ID: 2013-RMSB-2 (2.5-5)
Date Collected: 05/08/13 13:42
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-22
Matrix: Solid
Percent Solids: 74.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.000735	U	0.0134	0.000735	mg/Kg	☼		05/10/13 11:03	1
Carbon tetrachloride	0.00151	U	0.00668	0.00151	mg/Kg	☼		05/10/13 11:03	1
Dibromochloromethane	0.00126	U	0.00668	0.00126	mg/Kg	☼		05/10/13 11:03	1
Chlorobenzene	0.00128	U	0.00668	0.00128	mg/Kg	☼		05/10/13 11:03	1
Chloroethane	0.00187	U	0.0134	0.00187	mg/Kg	☼		05/10/13 11:03	1
Chloroform	**0.00114**	**J b**	0.00668	0.000882	mg/Kg	☼		05/10/13 11:03	1
Chloromethane	0.00222	U	0.0134	0.00222	mg/Kg	☼		05/10/13 11:03	1
1,1-Dichloroethane	0.00116	U	0.00668	0.00116	mg/Kg	☼		05/10/13 11:03	1
1,2-Dichloroethane	0.00120	U	0.00668	0.00120	mg/Kg	☼		05/10/13 11:03	1
1,1-Dichloroethene	0.00163	U	0.00668	0.00163	mg/Kg	☼		05/10/13 11:03	1
cis-1,2-Dichloroethene	0.00111	U	0.00668	0.00111	mg/Kg	☼		05/10/13 11:03	1
trans-1,2-Dichloroethene	0.00152	U	0.00668	0.00152	mg/Kg	☼		05/10/13 11:03	1
1,2-Dichloropropane	0.000949	U	0.00668	0.000949	mg/Kg	☼		05/10/13 11:03	1
cis-1,3-Dichloropropene	0.000722	U	0.00668	0.000722	mg/Kg	☼		05/10/13 11:03	1
trans-1,3-Dichloropropene	0.000775	U	0.00668	0.000775	mg/Kg	☼		05/10/13 11:03	1
Ethylbenzene	0.00136	U	0.00668	0.00136	mg/Kg	☼		05/10/13 11:03	1
2-Hexanone	0.00135	U	0.0134	0.00135	mg/Kg	☼		05/10/13 11:03	1
Methylene Chloride	**0.00539**	**J**	0.0134	0.00293	mg/Kg	☼		05/10/13 11:03	1
4-Methyl-2-pentanone (MIBK)	0.00196	U	0.0134	0.00196	mg/Kg	☼		05/10/13 11:03	1
Styrene	0.000949	U	0.00668	0.000949	mg/Kg	☼		05/10/13 11:03	1
1,1,2,2-Tetrachloroethane	0.00116	U	0.00668	0.00116	mg/Kg	☼		05/10/13 11:03	1
Tetrachloroethene	0.000949	U	0.00668	0.000949	mg/Kg	☼		05/10/13 11:03	1
Toluene	0.00184	U	0.00668	0.00184	mg/Kg	☼		05/10/13 11:03	1
1,1,1-Trichloroethane	0.000989	U	0.00668	0.000989	mg/Kg	☼		05/10/13 11:03	1
1,1,2-Trichloroethane	0.000976	U	0.00668	0.000976	mg/Kg	☼		05/10/13 11:03	1
Trichloroethene	0.00187	U	0.00668	0.00187	mg/Kg	☼		05/10/13 11:03	1
Vinyl acetate	0.00124	U	0.00668	0.00124	mg/Kg	☼		05/10/13 11:03	1
Vinyl chloride	0.00120	U	0.0134	0.00120	mg/Kg	☼		05/10/13 11:03	1
o-Xylene	0.00151	U	0.00668	0.00151	mg/Kg	☼		05/10/13 11:03	1
m-Xylene & p-Xylene	0.00203	U	0.0134	0.00203	mg/Kg	☼		05/10/13 11:03	1
Xylenes, Total	0.00151	U	0.00668	0.00151	mg/Kg	☼		05/10/13 11:03	1
Bromodichloromethane	0.000882	U	0.00668	0.000882	mg/Kg	☼		05/10/13 11:03	1
1,2-Dichloroethene, Total	0.00254	U	0.0134	0.00254	mg/Kg	☼		05/10/13 11:03	1
Methyl tert-butyl ether	0.00245	U	0.00668	0.00245	mg/Kg	☼		05/10/13 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*50 - 130*		*05/10/13 11:03*	*1*
Dibromofluoromethane	*94*		*68 - 140*		*05/10/13 11:03*	*1*
4-Bromofluorobenzene	*115*		*57 - 140*		*05/10/13 11:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*		*05/10/13 11:03*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00192	U	0.0222	0.00192	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Acenaphthylene	0.00133	U	0.0222	0.00133	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Anthracene	0.00170	U	0.0222	0.00170	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzidine	0.0120	U	0.111	0.0120	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzo[a]anthracene	0.00184	U	0.0222	0.00184	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzo[b]fluoranthene	0.00229	U	0.0222	0.00229	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzo[k]fluoranthene	0.00198	U	0.0222	0.00198	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1

Client Sample ID: 2013-RMSB-2 (2.5-5)
Date Collected: 05/08/13 13:42
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-22
Matrix: Solid
Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	0.00675	U	0.0222	0.00675	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzo[a]pyrene	0.00214	U	0.0222	0.00214	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Bis(2-chloroethoxy)methane	0.00189	U	0.0222	0.00189	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Bis(2-chloroethyl)ether	0.00220	U	0.0222	0.00220	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Bis(2-ethylhexyl) phthalate	**0.00737**	**J**	0.0887	0.00715	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Bromophenyl phenyl ether	0.00378	U	0.0222	0.00378	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Butyl benzyl phthalate	0.00824	U	0.0887	0.00824	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Chloroaniline	0.00774	U	0.0222	0.00774	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Chloronaphthalene	0.00161	U	0.0222	0.00161	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Chlorophenyl phenyl ether	0.00240	U	0.0222	0.00240	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Carbazole	0.00415	U	0.0222	0.00415	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Chrysene	0.00136	U	0.0222	0.00136	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Di-n-butyl phthalate	0.00345	U	0.0887	0.00345	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Dibenz(a,h)anthracene	0.00483	U	0.0222	0.00483	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Dibenzofuran	0.00237	U	0.0222	0.00237	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
1,2-Dichlorobenzene	0.00402	U	0.0222	0.00402	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
1,3-Dichlorobenzene	0.00205	U	0.0222	0.00205	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
1,4-Dichlorobenzene	0.00299	U	0.0222	0.00299	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
3,3'-Dichlorobenzidine	0.0135	U	0.0222	0.0135	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Diethyl phthalate	0.0112	U	0.0887	0.0112	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Dimethyl phthalate	0.00651	U	0.0887	0.00651	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,4-Dinitrotoluene	0.00480	U	0.0222	0.00480	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Di-n-octyl phthalate	0.00253	U	0.0887	0.00253	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Fluoranthene	0.00414	U	0.0222	0.00414	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Fluorene	0.00314	U	0.0222	0.00314	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Hexachlorobenzene	0.00202	U	0.0222	0.00202	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Hexachlorocyclopentadiene	0.00613	U	0.0222	0.00613	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Hexachloroethane	0.00307	U	0.0222	0.00307	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Hexachlorobutadiene	0.00256	U	0.0222	0.00256	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Indeno[1,2,3-cd]pyrene	0.00466	U	0.0222	0.00466	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Isophorone	0.00133	U	0.0222	0.00133	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Methylnaphthalene	**0.00709**	**J**	0.0222	0.00365	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Naphthalene	0.00180	U	0.0222	0.00180	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Nitroaniline	0.00651	U	0.0222	0.00651	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
3-Nitroaniline	0.00951	U	0.0222	0.00951	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Nitroaniline	0.0148	U	0.0222	0.0148	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Nitrobenzene	0.00394	U	0.0222	0.00394	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
N-Nitrosodimethylamine	0.00558	U	0.0222	0.00558	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
N-Nitrosodiphenylamine	0.00252	U	0.0222	0.00252	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
N-Nitrosodi-n-propylamine	0.00295	U	0.0222	0.00295	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Phenanthrene	0.00659	U	0.0222	0.00659	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Pyrene	0.00244	U	0.0222	0.00244	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
1,2,4-Trichlorobenzene	0.00279	U	0.0222	0.00279	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Benzyl alcohol	0.00776	U	0.0222	0.00776	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Chloro-3-methylphenol	0.0207	U	0.0222	0.0207	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Chlorophenol	0.00262	U	0.0222	0.00262	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Methylphenol	0.00430	U	0.0222	0.00430	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
3 & 4 Methylphenol	0.00371	U	0.0444	0.00371	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,4-Dichlorophenol	0.00515	U	0.0222	0.00515	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1

Client Sample ID: 2013-RMSB-2 (2.5-5)

Lab Sample ID: 600-72840-22

Date Collected: 05/08/13 13:42
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	0.0114	U	0.0222	0.0114	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4,6-Dinitro-2-methylphenol	0.00663	U	0.0222	0.00663	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,4-Dinitrophenol	0.00628	U	0.133	0.00628	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2-Nitrophenol	0.00518	U	0.0222	0.00518	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
4-Nitrophenol	0.00676	U	0.0222	0.00676	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Pentachlorophenol	0.00532	U	0.222	0.00532	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
Phenol	0.00564	U	0.0222	0.00564	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,4,5-Trichlorophenol	0.0133	U	0.0222	0.0133	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,4,6-Trichlorophenol	0.00357	U	0.0222	0.00357	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
2,6-Dinitrotoluene	0.00393	U	0.0222	0.00393	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1
bis (2-Chloroisopropyl) ether	0.0118	U	0.0222	0.0118	mg/Kg	☼	05/09/13 14:48	05/10/13 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*56 - 123*	*05/09/13 14:48*	*05/10/13 12:31*	*1*
Nitrobenzene-d5	*85*		*34 - 118*	*05/09/13 14:48*	*05/10/13 12:31*	*1*
2-Fluorophenol	*86*		*41 - 122*	*05/09/13 14:48*	*05/10/13 12:31*	*1*
2-Fluorobiphenyl	*86*		*51 - 120*	*05/09/13 14:48*	*05/10/13 12:31*	*1*
2,4,6-Tribromophenol	*70*		*34 - 122*	*05/09/13 14:48*	*05/10/13 12:31*	*1*
Phenol-d5 (Surr)	*84*		*43 - 125*	*05/09/13 14:48*	*05/10/13 12:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**114**		0.668	0.140	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Chromium	**22.4**		0.668	0.0676	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Cadmium	**2.31**		0.334	0.0343	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Barium	**127**	**b**	1.34	0.0401	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Arsenic	**12.5**		1.34	0.291	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Silver	0.159	U	0.668	0.159	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1
Selenium	**0.722**	**J**	2.67	0.346	mg/Kg	☼	05/09/13 13:32	05/10/13 12:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0104**	**J**	0.0647	0.00463	mg/Kg	☼	05/09/13 10:50	05/09/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25**		1.0	1.0	%			05/09/13 17:25	1
Percent Solids	**75**		1.0	1.0	%			05/09/13 17:25	1

Client Sample ID: 2013-RMSB-2 (5-6)

Lab Sample ID: 600-72840-23

Date Collected: 05/08/13 13:43
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 71.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0116	U	0.0700	0.0116	mg/Kg	☼		05/10/13 11:26	5
Benzene	0.00441	U	0.0350	0.00441	mg/Kg	☼		05/10/13 11:26	5
Chlorobromomethane	0.0125	U	0.0350	0.0125	mg/Kg	☼		05/10/13 11:26	5
Bromoform	0.00960	U	0.0350	0.00960	mg/Kg	☼		05/10/13 11:26	5
Bromomethane	0.00581	U	0.0700	0.00581	mg/Kg	☼		05/10/13 11:26	5
2-Butanone (MEK)	0.0133	U	0.0700	0.0133	mg/Kg	☼		05/10/13 11:26	5

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Client Sample ID: 2013-RMSB-2 (5-6)
Date Collected: 05/08/13 13:43
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-23
Matrix: Solid
Percent Solids: 71.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00385	U	0.0700	0.00385	mg/Kg	☼		05/10/13 11:26	5
Carbon tetrachloride	0.00791	U	0.0350	0.00791	mg/Kg	☼		05/10/13 11:26	5
Dibromochloromethane	0.00658	U	0.0350	0.00658	mg/Kg	☼		05/10/13 11:26	5
Chlorobenzene	0.00672	U	0.0350	0.00672	mg/Kg	☼		05/10/13 11:26	5
Chloroethane	0.00981	U	0.0700	0.00981	mg/Kg	☼		05/10/13 11:26	5
Chloroform	**0.00617**	**J b**	0.0350	0.00462	mg/Kg	☼		05/10/13 11:26	5
Chloromethane	0.0116	U	0.0700	0.0116	mg/Kg	☼		05/10/13 11:26	5
1,1-Dichloroethane	0.00609	U	0.0350	0.00609	mg/Kg	☼		05/10/13 11:26	5
1,2-Dichloroethane	0.00630	U	0.0350	0.00630	mg/Kg	☼		05/10/13 11:26	5
1,1-Dichloroethene	0.00854	U	0.0350	0.00854	mg/Kg	☼		05/10/13 11:26	5
cis-1,2-Dichloroethene	0.00581	U	0.0350	0.00581	mg/Kg	☼		05/10/13 11:26	5
trans-1,2-Dichloroethene	0.00798	U	0.0350	0.00798	mg/Kg	☼		05/10/13 11:26	5
1,2-Dichloropropane	0.00497	U	0.0350	0.00497	mg/Kg	☼		05/10/13 11:26	5
cis-1,3-Dichloropropene	0.00378	U	0.0350	0.00378	mg/Kg	☼		05/10/13 11:26	5
trans-1,3-Dichloropropene	0.00406	U	0.0350	0.00406	mg/Kg	☼		05/10/13 11:26	5
Ethylbenzene	0.00714	U	0.0350	0.00714	mg/Kg	☼		05/10/13 11:26	5
2-Hexanone	0.00707	U	0.0700	0.00707	mg/Kg	☼		05/10/13 11:26	5
Methylene Chloride	**0.0186**	**J**	0.0700	0.0153	mg/Kg	☼		05/10/13 11:26	5
4-Methyl-2-pentanone (MIBK)	0.0103	U	0.0700	0.0103	mg/Kg	☼		05/10/13 11:26	5
Styrene	0.00497	U	0.0350	0.00497	mg/Kg	☼		05/10/13 11:26	5
1,1,2,2-Tetrachloroethane	0.00609	U	0.0350	0.00609	mg/Kg	☼		05/10/13 11:26	5
Tetrachloroethene	0.00497	U	0.0350	0.00497	mg/Kg	☼		05/10/13 11:26	5
Toluene	0.00967	U	0.0350	0.00967	mg/Kg	☼		05/10/13 11:26	5
1,1,1-Trichloroethane	0.00518	U	0.0350	0.00518	mg/Kg	☼		05/10/13 11:26	5
1,1,2-Trichloroethane	0.00511	U	0.0350	0.00511	mg/Kg	☼		05/10/13 11:26	5
Trichloroethene	0.00981	U	0.0350	0.00981	mg/Kg	☼		05/10/13 11:26	5
Vinyl acetate	0.00651	U	0.0350	0.00651	mg/Kg	☼		05/10/13 11:26	5
Vinyl chloride	0.00630	U	0.0700	0.00630	mg/Kg	☼		05/10/13 11:26	5
o-Xylene	0.00791	U	0.0350	0.00791	mg/Kg	☼		05/10/13 11:26	5
m-Xylene & p-Xylene	0.0106	U	0.0700	0.0106	mg/Kg	☼		05/10/13 11:26	5
Xylenes, Total	0.00791	U	0.0350	0.00791	mg/Kg	☼		05/10/13 11:26	5
Bromodichloromethane	0.00462	U	0.0350	0.00462	mg/Kg	☼		05/10/13 11:26	5
1,2-Dichloroethene, Total	0.0133	U	0.0700	0.0133	mg/Kg	☼		05/10/13 11:26	5
Methyl tert-butyl ether	0.0128	U	0.0350	0.0128	mg/Kg	☼		05/10/13 11:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*50 - 130*		*05/10/13 11:26*	*5*
Dibromofluoromethane	*96*		*68 - 140*		*05/10/13 11:26*	*5*
4-Bromofluorobenzene	*124*		*57 - 140*		*05/10/13 11:26*	*5*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*		*05/10/13 11:26*	*5*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00201	U	0.0233	0.00201	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Acenaphthylene	0.00140	U	0.0233	0.00140	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Anthracene	0.00179	U	0.0233	0.00179	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzidine	0.0126	U	0.116	0.0126	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzo[a]anthracene	0.00193	U	0.0233	0.00193	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzo[b]fluoranthene	0.00240	U	0.0233	0.00240	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzo[k]fluoranthene	0.00208	U	0.0233	0.00208	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Client Sample ID: 2013-RMSB-2 (5-6)
Date Collected: 05/08/13 13:43
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-23
Matrix: Solid
Percent Solids: 71.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	0.00708	U	0.0233	0.00708	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzo[a]pyrene	0.00225	U	0.0233	0.00225	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Bis(2-chloroethoxy)methane	0.00198	U	0.0233	0.00198	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Bis(2-chloroethyl)ether	0.00230	U	0.0233	0.00230	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Bis(2-ethylhexyl) phthalate	**0.0652**	**J**	0.0931	0.00749	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Bromophenyl phenyl ether	0.00396	U	0.0233	0.00396	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Butyl benzyl phthalate	0.00864	U	0.0931	0.00864	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Chloroaniline	0.00812	U	0.0233	0.00812	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2-Chloronaphthalene	0.00169	U	0.0233	0.00169	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Chlorophenyl phenyl ether	0.00251	U	0.0233	0.00251	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Carbazole	0.00435	U	0.0233	0.00435	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Chrysene	0.00142	U	0.0233	0.00142	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Di-n-butyl phthalate	0.00361	U	0.0931	0.00361	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Dibenz(a,h)anthracene	0.00507	U	0.0233	0.00507	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Dibenzofuran	**0.248**		0.0233	0.00248	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
1,2-Dichlorobenzene	0.00422	U	0.0233	0.00422	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
1,3-Dichlorobenzene	0.00215	U	0.0233	0.00215	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
1,4-Dichlorobenzene	0.00314	U	0.0233	0.00314	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
3,3'-Dichlorobenzidine	0.0142	U	0.0233	0.0142	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Diethyl phthalate	0.0118	U	0.0931	0.0118	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Dimethyl phthalate	0.00682	U	0.0931	0.00682	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4-Dinitrotoluene	0.00504	U	0.0233	0.00504	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Di-n-octyl phthalate	0.00265	U	0.0931	0.00265	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Fluoranthene	0.00434	U	0.0233	0.00434	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Fluorene	**0.317**		0.0233	0.00329	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Hexachlorobenzene	0.00212	U	0.0233	0.00212	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Hexachlorocyclopentadiene	0.00643	U	0.0233	0.00643	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Hexachloroethane	0.00322	U	0.0233	0.00322	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Hexachlorobutadiene	0.00268	U	0.0233	0.00268	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Indeno[1,2,3-cd]pyrene	0.00488	U	0.0233	0.00488	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Isophorone	0.00140	U	0.0233	0.00140	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Naphthalene	**0.963**		0.0233	0.00188	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2-Nitroaniline	0.00682	U	0.0233	0.00682	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
3-Nitroaniline	0.00998	U	0.0233	0.00998	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Nitroaniline	0.0156	U	0.0233	0.0156	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Nitrobenzene	0.00413	U	0.0233	0.00413	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
N-Nitrosodimethylamine	0.00585	U	0.0233	0.00585	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
N-Nitrosodiphenylamine	0.00264	U	0.0233	0.00264	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
N-Nitrosodi-n-propylamine	0.00310	U	0.0233	0.00310	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Phenanthrene	**0.496**		0.0233	0.00691	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Pyrene	0.00255	U	0.0233	0.00255	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
1,2,4-Trichlorobenzene	0.00293	U	0.0233	0.00293	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Benzyl alcohol	0.00814	U	0.0233	0.00814	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Chloro-3-methylphenol	0.0217	U	0.0233	0.0217	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2-Chlorophenol	0.00275	U	0.0233	0.00275	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2-Methylphenol	0.00451	U	0.0233	0.00451	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
3 & 4 Methylphenol	0.00389	U	0.0465	0.00389	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4-Dichlorophenol	0.00540	U	0.0233	0.00540	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4-Dimethylphenol	0.0120	U	0.0233	0.0120	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1

Client Sample ID: 2013-RMSB-2 (5-6)
Date Collected: 05/08/13 13:43
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-23
Matrix: Solid
Percent Solids: 71.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.00695	U	0.0233	0.00695	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4-Dinitrophenol	0.00659	U	0.140	0.00659	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2-Nitrophenol	0.00543	U	0.0233	0.00543	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
4-Nitrophenol	0.00709	U	0.0233	0.00709	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Pentachlorophenol	0.00558	U	0.233	0.00558	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
Phenol	0.00592	U	0.0233	0.00592	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4,5-Trichlorophenol	0.0140	U	0.0233	0.0140	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,4,6-Trichlorophenol	0.00374	U	0.0233	0.00374	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
2,6-Dinitrotoluene	0.00412	U	0.0233	0.00412	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1
bis (2-Chloroisopropyl) ether	0.0123	U	0.0233	0.0123	mg/Kg	☼	05/09/13 14:48	05/10/13 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*101*		*56 - 123*	*05/09/13 14:48*	*05/10/13 12:58*	*1*
Nitrobenzene-d5	*107*		*34 - 118*	*05/09/13 14:48*	*05/10/13 12:58*	*1*
2-Fluorophenol	*92*		*41 - 122*	*05/09/13 14:48*	*05/10/13 12:58*	*1*
2-Fluorobiphenyl	*92*		*51 - 120*	*05/09/13 14:48*	*05/10/13 12:58*	*1*
2,4,6-Tribromophenol	*77*		*34 - 122*	*05/09/13 14:48*	*05/10/13 12:58*	*1*
Phenol-d5 (Surr)	*93*		*43 - 125*	*05/09/13 14:48*	*05/10/13 12:58*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**3.68**		0.233	0.0382	mg/Kg	☼	05/09/13 14:48	05/10/13 17:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*103*		*56 - 123*	*05/09/13 14:48*	*05/10/13 17:48*	*10*
Nitrobenzene-d5	*97*		*34 - 118*	*05/09/13 14:48*	*05/10/13 17:48*	*10*
2-Fluorophenol	*109*		*41 - 122*	*05/09/13 14:48*	*05/10/13 17:48*	*10*
2-Fluorobiphenyl	*108*		*51 - 120*	*05/09/13 14:48*	*05/10/13 17:48*	*10*
2,4,6-Tribromophenol	*52*		*34 - 122*	*05/09/13 14:48*	*05/10/13 17:48*	*10*
Phenol-d5 (Surr)	*99*		*43 - 125*	*05/09/13 14:48*	*05/10/13 17:48*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**226**		0.643	0.135	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Chromium	**18.6**		0.643	0.0650	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Cadmium	**3.86**		0.321	0.0330	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Barium	**108**	**b**	1.29	0.0386	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Arsenic	**11.3**		1.29	0.280	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Silver	0.153	U	0.643	0.153	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1
Selenium	**0.681**	**J**	2.57	0.333	mg/Kg	☼	05/09/13 13:32	05/10/13 13:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00501	U	0.0700	0.00501	mg/Kg	☼	05/09/13 10:50	05/09/13 12:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29**		1.0	1.0	%			05/09/13 17:25	1
Percent Solids	**71**		1.0	1.0	%			05/09/13 17:25	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Metals

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.
b	The compound was found in the blank and sample

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-72840-22	2013-RMSB-2 (2.5-5)	93	94	115	78
600-72840-23	2013-RMSB-2 (5-6)	88	96	124	86
LCS 600-105880/3	Lab Control Sample	92	97	116	86
MB 600-105880/4	Method Blank	87	99	118	100

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TPH	NBZ	2FP	FBP	TBP	PHL
Lab Sample ID	Client Sample ID	(56-123)	(34-118)	(41-122)	(51-120)	(34-122)	(43-125)
600-72840-22	2013-RMSB-2 (2.5-5)	97	85	86	86	70	84
600-72840-23 - DL	2013-RMSB-2 (5-6)	103	97	109	108	52	99
600-72840-23	2013-RMSB-2 (5-6)	101	107	92	92	77	93
LCS 600-105792/2-A	Lab Control Sample	115	98	101	96	91	97
MB 600-105792/1-A	Method Blank	108	90	97	95	68	95

Surrogate Legend

TPH = Terphenyl-d14
NBZ = Nitrobenzene-d5
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-105880/4
Matrix: Solid
Analysis Batch: 105880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/10/13 09:51	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/10/13 09:51	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/10/13 09:51	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/10/13 09:51	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/10/13 09:51	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/10/13 09:51	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/10/13 09:51	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/10/13 09:51	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/10/13 09:51	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/10/13 09:51	1
Chloroform	0.001031	J	0.00500	0.000660	mg/Kg			05/10/13 09:51	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/10/13 09:51	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/10/13 09:51	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/10/13 09:51	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/10/13 09:51	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/10/13 09:51	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/10/13 09:51	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/10/13 09:51	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/10/13 09:51	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/10/13 09:51	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/10/13 09:51	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			05/10/13 09:51	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/10/13 09:51	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/10/13 09:51	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/10/13 09:51	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/10/13 09:51	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/10/13 09:51	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/10/13 09:51	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			05/10/13 09:51	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/10/13 09:51	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			05/10/13 09:51	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/10/13 09:51	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/10/13 09:51	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/10/13 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*50 - 130*		*05/10/13 09:51*	*1*
Dibromofluoromethane	*99*		*68 - 140*		*05/10/13 09:51*	*1*
4-Bromofluorobenzene	*118*		*57 - 140*		*05/10/13 09:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*		*05/10/13 09:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-105880/3
Matrix: Solid
Analysis Batch: 105880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.1039		mg/Kg		104	44 - 136
Benzene	0.0500	0.04355		mg/Kg		87	66 - 128
Chlorobromomethane	0.0500	0.04367		mg/Kg		87	60 - 140
Bromoform	0.0500	0.03977		mg/Kg		80	50 - 130
Bromomethane	0.0500	0.04046		mg/Kg		81	28 - 164
2-Butanone (MEK)	0.100	0.07895		mg/Kg		79	42 - 186
Carbon disulfide	0.0500	0.03667		mg/Kg		73	53 - 176
Carbon tetrachloride	0.0500	0.04225		mg/Kg		85	63 - 132
Dibromochloromethane	0.0500	0.04153		mg/Kg		83	63 - 125
Chlorobenzene	0.0500	0.04842		mg/Kg		97	67 - 126
Chloroethane	0.0500	0.03881		mg/Kg		78	30 - 136
Chloroform	0.0500	0.04420		mg/Kg		88	67 - 126
Chloromethane	0.0500	0.03994		mg/Kg		80	21 - 153
1,1-Dichloroethane	0.0500	0.04537		mg/Kg		91	64 - 130
1,2-Dichloroethane	0.0500	0.04187		mg/Kg		84	61 - 135
1,1-Dichloroethene	0.0500	0.04156		mg/Kg		83	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04212		mg/Kg		84	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04065		mg/Kg		81	65 - 130
1,2-Dichloropropane	0.0500	0.04470		mg/Kg		89	71 - 122
cis-1,3-Dichloropropene	0.0500	0.03980		mg/Kg		80	66 - 129
trans-1,3-Dichloropropene	0.0500	0.04446		mg/Kg		89	66 - 134
Ethylbenzene	0.0500	0.04187		mg/Kg		84	64 - 127
2-Hexanone	0.100	0.07052		mg/Kg		71	52 - 142
Methylene Chloride	0.0500	0.04671		mg/Kg		93	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.07144		mg/Kg		71	52 - 146
Styrene	0.0500	0.04353		mg/Kg		87	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.04033		mg/Kg		81	59 - 134
Tetrachloroethene	0.0500	0.05002		mg/Kg		100	69 - 125
Toluene	0.0500	0.04352		mg/Kg		87	69 - 125
1,1,1-Trichloroethane	0.0500	0.04364		mg/Kg		87	70 - 127
1,1,2-Trichloroethane	0.0500	0.04466		mg/Kg		89	67 - 124
Trichloroethene	0.0500	0.04588		mg/Kg		92	70 - 136
Vinyl acetate	0.0500	0.03420		mg/Kg		68	54 - 136
Vinyl chloride	0.0500	0.03667		mg/Kg		73	28 - 159
o-Xylene	0.0500	0.04544		mg/Kg		91	64 - 132
m-Xylene & p-Xylene	0.100	0.08881		mg/Kg		89	65 - 128
Xylenes, Total	0.150	0.1343		mg/Kg		90	65 - 129
Bromodichloromethane	0.0500	0.04099		mg/Kg		82	68 - 121
1,2-Dichloroethene, Total	0.100	0.08277		mg/Kg		83	62 - 130
Methyl tert-butyl ether	0.0500	0.03870		mg/Kg		77	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*50 - 130*
Dibromofluoromethane	*97*		*68 - 140*
4-Bromofluorobenzene	*116*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-105792/1-A
Matrix: Solid
Analysis Batch: 105913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105792

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00144	U	0.0167	0.00144	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Acenaphthylene	0.00100	U	0.0167	0.00100	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Anthracene	0.00128	U	0.0167	0.00128	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzidine	0.00902	U	0.0833	0.00902	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzo[a]anthracene	0.00138	U	0.0167	0.00138	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzo[b]fluoranthene	0.00172	U	0.0167	0.00172	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzo[k]fluoranthene	0.00149	U	0.0167	0.00149	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzo[g,h,i]perylene	0.00507	U	0.0167	0.00507	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzo[a]pyrene	0.00161	U	0.0167	0.00161	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Bis(2-chloroethoxy)methane	0.00142	U	0.0167	0.00142	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Bis(2-chloroethyl)ether	0.00165	U	0.0167	0.00165	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Bis(2-ethylhexyl) phthalate	0.00537	U	0.0667	0.00537	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Bromophenyl phenyl ether	0.00284	U	0.0167	0.00284	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Butyl benzyl phthalate	0.00619	U	0.0667	0.00619	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Chloroaniline	0.00582	U	0.0167	0.00582	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Chloronaphthalene	0.00121	U	0.0167	0.00121	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Chlorophenyl phenyl ether	0.00180	U	0.0167	0.00180	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Carbazole	0.00312	U	0.0167	0.00312	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Chrysene	0.00102	U	0.0167	0.00102	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Di-n-butyl phthalate	0.00259	U	0.0667	0.00259	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Dibenz(a,h)anthracene	0.00363	U	0.0167	0.00363	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Dibenzofuran	0.00178	U	0.0167	0.00178	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
1,2-Dichlorobenzene	0.00302	U	0.0167	0.00302	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
1,3-Dichlorobenzene	0.00154	U	0.0167	0.00154	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
1,4-Dichlorobenzene	0.00225	U	0.0167	0.00225	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
3,3'-Dichlorobenzidine	0.0102	U	0.0167	0.0102	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Diethyl phthalate	0.00843	U	0.0667	0.00843	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Dimethyl phthalate	0.00489	U	0.0667	0.00489	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4-Dinitrotoluene	0.00361	U	0.0167	0.00361	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Di-n-octyl phthalate	0.00190	U	0.0667	0.00190	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Fluoranthene	0.00311	U	0.0167	0.00311	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Fluorene	0.00236	U	0.0167	0.00236	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Hexachlorobenzene	0.00152	U	0.0167	0.00152	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Hexachlorocyclopentadiene	0.00461	U	0.0167	0.00461	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Hexachloroethane	0.00231	U	0.0167	0.00231	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Hexachlorobutadiene	0.00192	U	0.0167	0.00192	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0167	0.00350	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Isophorone	0.00100	U	0.0167	0.00100	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Methylnaphthalene	0.00274	U	0.0167	0.00274	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Naphthalene	0.00135	U	0.0167	0.00135	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Nitroaniline	0.00489	U	0.0167	0.00489	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
3-Nitroaniline	0.00715	U	0.0167	0.00715	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Nitroaniline	0.0112	U	0.0167	0.0112	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Nitrobenzene	0.00296	U	0.0167	0.00296	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
N-Nitrosodimethylamine	0.00419	U	0.0167	0.00419	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
N-Nitrosodiphenylamine	0.00189	U	0.0167	0.00189	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
N-Nitrosodi-n-propylamine	0.00222	U	0.0167	0.00222	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Phenanthrene	0.00495	U	0.0167	0.00495	mg/Kg		05/09/13 14:48	05/10/13 10:45	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-105792/1-A
Matrix: Solid
Analysis Batch: 105913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105792

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.00183	U	0.0167	0.00183	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
1,2,4-Trichlorobenzene	0.00210	U	0.0167	0.00210	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Benzyl alcohol	0.00583	U	0.0167	0.00583	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Chloro-3-methylphenol	0.0156	U	0.0167	0.0156	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Chlorophenol	0.00197	U	0.0167	0.00197	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Methylphenol	0.00323	U	0.0167	0.00323	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
3 & 4 Methylphenol	0.00279	U	0.0333	0.00279	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4-Dichlorophenol	0.00387	U	0.0167	0.00387	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4-Dimethylphenol	0.00858	U	0.0167	0.00858	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4,6-Dinitro-2-methylphenol	0.00498	U	0.0167	0.00498	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4-Dinitrophenol	0.00472	U	0.100	0.00472	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2-Nitrophenol	0.00389	U	0.0167	0.00389	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
4-Nitrophenol	0.00508	U	0.0167	0.00508	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
Phenol	0.00424	U	0.0167	0.00424	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4,5-Trichlorophenol	0.0100	U	0.0167	0.0100	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,4,6-Trichlorophenol	0.00268	U	0.0167	0.00268	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
2,6-Dinitrotoluene	0.00295	U	0.0167	0.00295	mg/Kg		05/09/13 14:48	05/10/13 10:45	1
bis (2-Chloroisopropyl) ether	0.00884	U	0.0167	0.00884	mg/Kg		05/09/13 14:48	05/10/13 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*108*		*56 - 123*	*05/09/13 14:48*	*05/10/13 10:45*	*1*
Nitrobenzene-d5	*90*		*34 - 118*	*05/09/13 14:48*	*05/10/13 10:45*	*1*
2-Fluorophenol	*97*		*41 - 122*	*05/09/13 14:48*	*05/10/13 10:45*	*1*
2-Fluorobiphenyl	*95*		*51 - 120*	*05/09/13 14:48*	*05/10/13 10:45*	*1*
2,4,6-Tribromophenol	*68*		*34 - 122*	*05/09/13 14:48*	*05/10/13 10:45*	*1*
Phenol-d5 (Surr)	*95*		*43 - 125*	*05/09/13 14:48*	*05/10/13 10:45*	*1*

Lab Sample ID: LCS 600-105792/2-A
Matrix: Solid
Analysis Batch: 105913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.2898		mg/Kg		87	58 - 125
Acenaphthylene	0.333	0.2944		mg/Kg		88	51 - 122
Anthracene	0.333	0.2950		mg/Kg		88	52 - 120
Benzidine	3.33	1.560		mg/Kg		47	10 - 135
Benzo[a]anthracene	0.333	0.3104		mg/Kg		93	49 - 124
Benzo[b]fluoranthene	0.333	0.2887		mg/Kg		87	58 - 130
Benzo[k]fluoranthene	0.333	0.3062		mg/Kg		92	56 - 129
Benzo[g,h,i]perylene	0.333	0.3431		mg/Kg		103	50 - 140
Benzo[a]pyrene	0.333	0.2790		mg/Kg		84	58 - 123
Bis(2-chloroethoxy)methane	0.333	0.2933		mg/Kg		88	54 - 114
Bis(2-chloroethyl)ether	0.333	0.3027		mg/Kg		91	44 - 119
Bis(2-ethylhexyl) phthalate	0.333	0.3390		mg/Kg		102	55 - 136
4-Bromophenyl phenyl ether	0.333	0.3446		mg/Kg		103	56 - 126
Butyl benzyl phthalate	0.333	0.3298		mg/Kg		99	43 - 135
4-Chloroaniline	0.333	0.2675		mg/Kg		80	42 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105792/2-A
Matrix: Solid
Analysis Batch: 105913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	0.333	0.2772		mg/Kg		83	50 - 123
4-Chlorophenyl phenyl ether	0.333	0.2680		mg/Kg		80	57 - 126
Carbazole	0.333	0.2992		mg/Kg		90	47 - 153
Chrysene	0.333	0.3016		mg/Kg		90	50 - 123
Di-n-butyl phthalate	0.333	0.3293		mg/Kg		99	61 - 124
Dibenz(a,h)anthracene	0.333	0.2937		mg/Kg		88	55 - 141
Dibenzofuran	0.333	0.2829		mg/Kg		85	54 - 119
1,2-Dichlorobenzene	0.333	0.2900		mg/Kg		87	57 - 117
1,3-Dichlorobenzene	0.333	0.2987		mg/Kg		90	50 - 128
1,4-Dichlorobenzene	0.333	0.3017		mg/Kg		91	59 - 117
3,3'-Dichlorobenzidine	0.333	0.2839		mg/Kg		85	18 - 172
Diethyl phthalate	0.333	0.2747		mg/Kg		82	55 - 126
Dimethyl phthalate	0.333	0.2874		mg/Kg		86	58 - 126
2,4-Dinitrotoluene	0.333	0.2617		mg/Kg		79	53 - 123
Di-n-octyl phthalate	0.333	0.3545		mg/Kg		106	45 - 135
Fluoranthene	0.333	0.2972		mg/Kg		89	56 - 123
Fluorene	0.333	0.2776		mg/Kg		83	52 - 147
Hexachlorobenzene	0.333	0.3165		mg/Kg		95	59 - 122
Hexachlorocyclopentadiene	0.333	0.3045		mg/Kg		91	33 - 119
Hexachloroethane	0.333	0.2885		mg/Kg		87	36 - 116
Hexachlorobutadiene	0.333	0.2887		mg/Kg		87	49 - 123
Indeno[1,2,3-cd]pyrene	0.333	0.3140		mg/Kg		94	40 - 147
Isophorone	0.333	0.2946		mg/Kg		88	49 - 115
2-Methylnaphthalene	0.333	0.2870		mg/Kg		86	54 - 130
Naphthalene	0.333	0.2854		mg/Kg		86	52 - 117
2-Nitroaniline	0.333	0.3108		mg/Kg		93	49 - 149
3-Nitroaniline	0.333	0.3189		mg/Kg		96	45 - 133
4-Nitroaniline	0.333	0.2705		mg/Kg		81	48 - 138
Nitrobenzene	0.333	0.2924		mg/Kg		88	53 - 123
N-Nitrosodimethylamine	0.333	0.3462		mg/Kg		104	41 - 138
N-Nitrosodiphenylamine	0.333	0.3758		mg/Kg		113	47 - 127
N-Nitrosodi-n-propylamine	0.333	0.3371		mg/Kg		101	43 - 140
Phenanthrene	0.333	0.2969		mg/Kg		89	55 - 120
Pyrene	0.333	0.3672		mg/Kg		110	48 - 131
1,2,4-Trichlorobenzene	0.333	0.2799		mg/Kg		84	54 - 115
Benzyl alcohol	0.333	0.2991		mg/Kg		90	25 - 141
4-Chloro-3-methylphenol	0.333	0.2602		mg/Kg		78	54 - 119
2-Chlorophenol	0.333	0.2934		mg/Kg		88	54 - 119
2-Methylphenol	0.333	0.2836		mg/Kg		85	45 - 118
3 & 4 Methylphenol	0.333	0.2862		mg/Kg		86	44 - 126
2,4-Dichlorophenol	0.333	0.2865		mg/Kg		86	54 - 119
2,4-Dimethylphenol	0.333	0.2752		mg/Kg		83	36 - 124
4,6-Dinitro-2-methylphenol	0.333	0.1638		mg/Kg		49	34 - 124
2,4-Dinitrophenol	0.333	0.3410		mg/Kg		102	25 - 117
2-Nitrophenol	0.333	0.2940		mg/Kg		88	50 - 112
4-Nitrophenol	0.333	0.3197		mg/Kg		96	20 - 132
Pentachlorophenol	0.333	0.2804		mg/Kg		84	17 - 124
Phenol	0.333	0.3007		mg/Kg		90	33 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105792/2-A
Matrix: Solid
Analysis Batch: 105913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.333	0.2994		mg/Kg		90	59 - 136
2,4,6-Trichlorophenol	0.333	0.2799		mg/Kg		84	59 - 134
2,6-Dinitrotoluene	0.333	0.2867		mg/Kg		86	53 - 116
bis (2-Chloroisopropyl) ether	0.333	0.3479		mg/Kg		104	51 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*115*		*56 - 123*
Nitrobenzene-d5	*98*		*34 - 118*
2-Fluorophenol	*101*		*41 - 122*
2-Fluorobiphenyl	*96*		*51 - 120*
2,4,6-Tribromophenol	*91*		*34 - 122*
Phenol-d5 (Surr)	*97*		*43 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105785/1-A
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105785

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0506	U	0.500	0.0506	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Barium	0.05500	J	1.00	0.0300	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Silver	0.119	U	0.500	0.119	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		05/09/13 13:32	05/10/13 11:53	1
Selenium	0.259	U	2.00	0.259	mg/Kg		05/09/13 13:32	05/10/13 11:53	1

Lab Sample ID: LCSSRM 600-105785/2-A
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	119	119.5		mg/Kg		100.4	81.6 - 117.6
Lead	76.9	77.67		mg/Kg		101.0	81.3 - 118.7
Cadmium	103	104.0		mg/Kg		101.0	83.6 - 115.5
Barium	213	202.4		mg/Kg		95.0	83.1 - 116.9
Silver	42.3	43.11		mg/Kg		101.9	66.4 - 133.8
Arsenic	168	169.8		mg/Kg		101.1	83.3 - 117.3
Selenium	126	125.3		mg/Kg		99.4	80.2 - 120.6

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72840-1 MS
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: 2013-WMU6-1 (0.9-2)
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10400		54.2	39070	4	mg/Kg	☼	52900	75 - 125
Cadmium	2.41		27.1	29.94		mg/Kg	☼	102	75 - 125
Arsenic	25.8		54.2	88.38		mg/Kg	☼	116	75 - 125
Selenium	0.478		54.2	53.51		mg/Kg	☼	98	75 - 125

Lab Sample ID: 600-72840-1 MSD
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: 2013-WMU6-1 (0.9-2)
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	10400		55.2	12490	4 N	mg/Kg	☼	3759	75 - 125	103	20
Cadmium	2.41		27.6	31.11		mg/Kg	☼	104	75 - 125	4	20
Arsenic	25.8		55.2	106.6	N	mg/Kg	☼	146	75 - 125	19	20
Selenium	0.478		55.2	53.92		mg/Kg	☼	97	75 - 125	1	20

Lab Sample ID: 600-72840-22 MS
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: 2013-RMSB-2 (2.5-5)
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	22.4		64.3	83.28		mg/Kg	☼	95	75 - 125
Lead	114		64.3	201.2	N	mg/Kg	☼	136	75 - 125
Cadmium	2.31		32.1	32.83		mg/Kg	☼	95	75 - 125
Barium	127	b	64.3	180.0		mg/Kg	☼	82	75 - 125
Silver	0.159	U	32.1	33.18		mg/Kg	☼	103	75 - 125
Arsenic	12.5		64.3	73.12		mg/Kg	☼	94	75 - 125
Selenium	0.722	J	64.3	59.09		mg/Kg	☼	91	75 - 125

Lab Sample ID: 600-72840-22 MSD
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: 2013-RMSB-2 (2.5-5)
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	22.4		63.0	79.18		mg/Kg	☼	90	75 - 125	5	20
Lead	114		63.0	190.3		mg/Kg	☼	122	75 - 125	6	20
Cadmium	2.31		31.5	31.64		mg/Kg	☼	93	75 - 125	4	20
Barium	127	b	63.0	178.6		mg/Kg	☼	81	75 - 125	1	20
Silver	0.159	U	31.5	31.52		mg/Kg	☼	100	75 - 125	5	20
Arsenic	12.5		63.0	69.92		mg/Kg	☼	91	75 - 125	4	20
Selenium	0.722	J	63.0	55.63		mg/Kg	☼	87	75 - 125	6	20

Lab Sample ID: 600-72840-1 DU
Matrix: Solid
Analysis Batch: 105888

Client Sample ID: 2013-WMU6-1 (0.9-2)
Prep Type: Total/NA
Prep Batch: 105785

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	10400		46960	F	mg/Kg	☼	127	20
Cadmium	2.41		4.602	F	mg/Kg	☼	63	20
Arsenic	25.8		64.59	F	mg/Kg	☼	86	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72840-1 DU — **Client Sample ID: 2013-WMU6-1 (0.9-2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105888 — **Prep Batch: 105785**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	0.478		0.9033	J	mg/Kg	☼	61	20

Lab Sample ID: 600-72840-22 DU — **Client Sample ID: 2013-RMSB-2 (2.5-5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105888 — **Prep Batch: 105785**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	22.4		23.07		mg/Kg	☼	3	20
Lead	114		124.5		mg/Kg	☼	9	20
Cadmium	2.31		2.474		mg/Kg	☼	7	20
Barium	127	b	119.5		mg/Kg	☼	6	20
Silver	0.159	U	0.153	U	mg/Kg	☼	NC	20
Arsenic	12.5		12.28		mg/Kg	☼	1	20
Selenium	0.722	J	0.7325	J	mg/Kg	☼	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-105732/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105744 — **Prep Batch: 105732**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0469	0.00336	mg/Kg		05/09/13 07:05	05/09/13 08:48	1

Lab Sample ID: LCSSRM 600-105732/8-A ^100 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105744 — **Prep Batch: 105732**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	25.3	23.01		mg/Kg		90.9	71.5 - 128.1

Lab Sample ID: 600-72840-23 MS — **Client Sample ID: 2013-RMSB-2 (5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105744 — **Prep Batch: 105732**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00501	U	0.328	0.3899		mg/Kg	☼	119	75 - 125

Lab Sample ID: 600-72840-23 DU — **Client Sample ID: 2013-RMSB-2 (5-6)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 105744 — **Prep Batch: 105732**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.00501	U	0.00485	U	mg/Kg	☼	NC	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72840-1 DU
Matrix: Solid
Analysis Batch: 105808

Client Sample ID: 2013-WMU6-1 (0.9-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14			15		%				8	20
Percent Solids	86			85		%				1	20

Lab Sample ID: 600-72840-19 DU
Matrix: Solid
Analysis Batch: 105808

Client Sample ID: 2013-RMSB-1 (5-5.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	25			25		%				0.2	20
Percent Solids	75			75		%				0.06	20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1,2,4-Trichlorobenzene	0.0167	0.00210	mg/Kg	8270C LL
1,2-Dichlorobenzene	0.0167	0.00302	mg/Kg	8270C LL
1,3-Dichlorobenzene	0.0167	0.00154	mg/Kg	8270C LL
1,4-Dichlorobenzene	0.0167	0.00225	mg/Kg	8270C LL
2,4,5-Trichlorophenol	0.0167	0.0100	mg/Kg	8270C LL
2,4,6-Trichlorophenol	0.0167	0.00268	mg/Kg	8270C LL
2,4-Dichlorophenol	0.0167	0.00387	mg/Kg	8270C LL
2,4-Dimethylphenol	0.0167	0.00858	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
2,4-Dinitrophenol	0.100	0.00472	mg/Kg	8270C LL
2,4-Dinitrotoluene	0.0167	0.00361	mg/Kg	8270C LL
2,6-Dinitrotoluene	0.0167	0.00295	mg/Kg	8270C LL
2-Chloronaphthalene	0.0167	0.00121	mg/Kg	8270C LL
2-Chlorophenol	0.0167	0.00197	mg/Kg	8270C LL
2-Methylnaphthalene	0.0167	0.00274	mg/Kg	8270C LL
2-Methylphenol	0.0167	0.00323	mg/Kg	8270C LL
2-Nitroaniline	0.0167	0.00489	mg/Kg	8270C LL
2-Nitrophenol	0.0167	0.00389	mg/Kg	8270C LL
3 & 4 Methylphenol	0.0333	0.00279	mg/Kg	8270C LL
3,3'-Dichlorobenzidine	0.0167	0.0102	mg/Kg	8270C LL
3-Nitroaniline	0.0167	0.00715	mg/Kg	8270C LL
4,6-Dinitro-2-methylphenol	0.0167	0.00498	mg/Kg	8270C LL
4-Bromophenyl phenyl ether	0.0167	0.00284	mg/Kg	8270C LL
4-Chloro-3-methylphenol	0.0167	0.0156	mg/Kg	8270C LL
4-Chloroaniline	0.0167	0.00582	mg/Kg	8270C LL
4-Chlorophenyl phenyl ether	0.0167	0.00180	mg/Kg	8270C LL
4-Nitroaniline	0.0167	0.0112	mg/Kg	8270C LL
4-Nitrophenol	0.0167	0.00508	mg/Kg	8270C LL
Acenaphthene	0.0167	0.00144	mg/Kg	8270C LL
Acenaphthylene	0.0167	0.00100	mg/Kg	8270C LL
Anthracene	0.0167	0.00128	mg/Kg	8270C LL
Benzidine	0.0833	0.00902	mg/Kg	8270C LL
Benzo[a]anthracene	0.0167	0.00138	mg/Kg	8270C LL
Benzo[a]pyrene	0.0167	0.00161	mg/Kg	8270C LL
Benzo[b]fluoranthene	0.0167	0.00172	mg/Kg	8270C LL
Benzo[g,h,i]perylene	0.0167	0.00507	mg/Kg	8270C LL
Benzo[k]fluoranthene	0.0167	0.00149	mg/Kg	8270C LL
Benzyl alcohol	0.0167	0.00583	mg/Kg	8270C LL
bis (2-Chloroisopropyl) ether	0.0167	0.00884	mg/Kg	8270C LL
Bis(2-chloroethoxy)methane	0.0167	0.00142	mg/Kg	8270C LL
Bis(2-chloroethyl)ether	0.0167	0.00165	mg/Kg	8270C LL
Bis(2-ethylhexyl) phthalate	0.0667	0.00537	mg/Kg	8270C LL
Butyl benzyl phthalate	0.0667	0.00619	mg/Kg	8270C LL
Carbazole	0.0167	0.00312	mg/Kg	8270C LL
Chrysene	0.0167	0.00102	mg/Kg	8270C LL
Dibenz(a,h)anthracene	0.0167	0.00363	mg/Kg	8270C LL
Dibenzofuran	0.0167	0.00178	mg/Kg	8270C LL
Diethyl phthalate	0.0667	0.00843	mg/Kg	8270C LL
Dimethyl phthalate	0.0667	0.00489	mg/Kg	8270C LL
Di-n-butyl phthalate	0.0667	0.00259	mg/Kg	8270C LL
Di-n-octyl phthalate	0.0667	0.00190	mg/Kg	8270C LL
Fluoranthene	0.0167	0.00311	mg/Kg	8270C LL
Fluorene	0.0167	0.00236	mg/Kg	8270C LL
Hexachlorobenzene	0.0167	0.00152	mg/Kg	8270C LL
Hexachlorobutadiene	0.0167	0.00192	mg/Kg	8270C LL
Hexachlorocyclopentadiene	0.0167	0.00461	mg/Kg	8270C LL
Hexachloroethane	0.0167	0.00231	mg/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	0.0167	0.00350	mg/Kg	8270C LL
Isophorone	0.0167	0.00100	mg/Kg	8270C LL
Naphthalene	0.0167	0.00135	mg/Kg	8270C LL
Nitrobenzene	0.0167	0.00296	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
N-Nitrosodimethylamine	0.0167	0.00419	mg/Kg	8270C LL
N-Nitrosodi-n-propylamine	0.0167	0.00222	mg/Kg	8270C LL
N-Nitrosodiphenylamine	0.0167	0.00189	mg/Kg	8270C LL
Pentachlorophenol	0.167	0.00400	mg/Kg	8270C LL
Phenanthrene	0.0167	0.00495	mg/Kg	8270C LL
Phenol	0.0167	0.00424	mg/Kg	8270C LL
Pyrene	0.0167	0.00183	mg/Kg	8270C LL

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Barium	1.00	0.0300	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Chromium	0.500	0.0506	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Selenium	2.00	0.259	mg/Kg	6010B
Silver	0.500	0.119	mg/Kg	6010B

Method: 7471A - Mercury (CVAA)

Analyte	MQL	MDL	Units	Method
Mercury	0.0500	0.00358	mg/Kg	7471A

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Analysis Batch: 105880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	8260B	
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	8260B	
LCS 600-105880/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-105880/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 105792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	3550B	
600-72840-23 - DL	2013-RMSB-2 (5-6)	Total/NA	Solid	3550B	
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	3550B	
LCS 600-105792/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-105792/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 105913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	8270C LL	105792
600-72840-23 - DL	2013-RMSB-2 (5-6)	Total/NA	Solid	8270C LL	105792
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	8270C LL	105792
LCS 600-105792/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	105792
MB 600-105792/1-A	Method Blank	Total/NA	Solid	8270C LL	105792

Metals

Prep Batch: 105732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	7471A	
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	
600-72840-23 DU	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	
600-72840-23 MS	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	
LCSSRM 600-105732/8-A ^100	Lab Control Sample	Total/NA	Solid	7471A	
MB 600-105732/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 105744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	7471A	105732
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	105732
600-72840-23 DU	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	105732
600-72840-23 MS	2013-RMSB-2 (5-6)	Total/NA	Solid	7471A	105732
LCSSRM 600-105732/8-A ^100	Lab Control Sample	Total/NA	Solid	7471A	105732
MB 600-105732/7-A	Method Blank	Total/NA	Solid	7471A	105732

Prep Batch: 105785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-1	2013-WMU6-1 (0.9-2)	Total/NA	Solid	3050B	
600-72840-1 - DL	2013-WMU6-1 (0.9-2)	Total/NA	Solid	3050B	
600-72840-1 DU	2013-WMU6-1 (0.9-2)	Total/NA	Solid	3050B	
600-72840-1 MS	2013-WMU6-1 (0.9-2)	Total/NA	Solid	3050B	
600-72840-1 MSD	2013-WMU6-1 (0.9-2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 105785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-4	2013-WMU14-2 (0.9-2)	Total/NA	Solid	3050B	
600-72840-7	2013-WMU16-1 (0.9-2)	Total/NA	Solid	3050B	
600-72840-10	2013-WMU14-3 (0.9-2)	Total/NA	Solid	3050B	
600-72840-13	2013-STB-9 (5-5.5)	Total/NA	Solid	3050B	
600-72840-14	2013-RMSB-8 (2.1-3.1)	Total/NA	Solid	3050B	
600-72840-15	2013-RMSB-8 (5-7)	Total/NA	Solid	3050B	
600-72840-15 - DL	2013-RMSB-8 (5-7)	Total/NA	Solid	3050B	
600-72840-16	2013-RMSB-8 (7.5)	Total/NA	Solid	3050B	
600-72840-17	2013-RMSB-1 (1.5-2)	Total/NA	Solid	3050B	
600-72840-18	2013-RMSB-1 (2-5)	Total/NA	Solid	3050B	
600-72840-19	2013-RMSB-1 (5-5.5)	Total/NA	Solid	3050B	
600-72840-20	2013-RMSB-1 (6)	Total/NA	Solid	3050B	
600-72840-21	DUP 16	Total/NA	Solid	3050B	
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	3050B	
600-72840-22 DU	2013-RMSB-2 (2.5-5)	Total/NA	Solid	3050B	
600-72840-22 MS	2013-RMSB-2 (2.5-5)	Total/NA	Solid	3050B	
600-72840-22 MSD	2013-RMSB-2 (2.5-5)	Total/NA	Solid	3050B	
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	3050B	
LCSSRM 600-105785/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105785/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 105888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-1	2013-WMU6-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-1 - DL	2013-WMU6-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-1 DU	2013-WMU6-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-1 MS	2013-WMU6-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-1 MSD	2013-WMU6-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-4	2013-WMU14-2 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-7	2013-WMU16-1 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-10	2013-WMU14-3 (0.9-2)	Total/NA	Solid	6010B	105785
600-72840-13	2013-STB-9 (5-5.5)	Total/NA	Solid	6010B	105785
600-72840-14	2013-RMSB-8 (2.1-3.1)	Total/NA	Solid	6010B	105785
600-72840-15	2013-RMSB-8 (5-7)	Total/NA	Solid	6010B	105785
600-72840-15 - DL	2013-RMSB-8 (5-7)	Total/NA	Solid	6010B	105785
600-72840-16	2013-RMSB-8 (7.5)	Total/NA	Solid	6010B	105785
600-72840-17	2013-RMSB-1 (1.5-2)	Total/NA	Solid	6010B	105785
600-72840-18	2013-RMSB-1 (2-5)	Total/NA	Solid	6010B	105785
600-72840-19	2013-RMSB-1 (5-5.5)	Total/NA	Solid	6010B	105785
600-72840-20	2013-RMSB-1 (6)	Total/NA	Solid	6010B	105785
600-72840-21	DUP 16	Total/NA	Solid	6010B	105785
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	6010B	105785
600-72840-22 DU	2013-RMSB-2 (2.5-5)	Total/NA	Solid	6010B	105785
600-72840-22 MS	2013-RMSB-2 (2.5-5)	Total/NA	Solid	6010B	105785
600-72840-22 MSD	2013-RMSB-2 (2.5-5)	Total/NA	Solid	6010B	105785
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	6010B	105785
LCSSRM 600-105785/2-A	Lab Control Sample	Total/NA	Solid	6010B	105785
MB 600-105785/1-A	Method Blank	Total/NA	Solid	6010B	105785

General Chemistry

Analysis Batch: 105808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-1	2013-WMU6-1 (0.9-2)	Total/NA	Solid	Moisture	
600-72840-1 DU	2013-WMU6-1 (0.9-2)	Total/NA	Solid	Moisture	
600-72840-4	2013-WMU14-2 (0.9-2)	Total/NA	Solid	Moisture	
600-72840-7	2013-WMU16-1 (0.9-2)	Total/NA	Solid	Moisture	
600-72840-10	2013-WMU14-3 (0.9-2)	Total/NA	Solid	Moisture	
600-72840-13	2013-STB-9 (5-5.5)	Total/NA	Solid	Moisture	
600-72840-14	2013-RMSB-8 (2.1-3.1)	Total/NA	Solid	Moisture	
600-72840-15	2013-RMSB-8 (5-7)	Total/NA	Solid	Moisture	
600-72840-16	2013-RMSB-8 (7.5)	Total/NA	Solid	Moisture	
600-72840-17	2013-RMSB-1 (1.5-2)	Total/NA	Solid	Moisture	
600-72840-18	2013-RMSB-1 (2-5)	Total/NA	Solid	Moisture	
600-72840-19	2013-RMSB-1 (5-5.5)	Total/NA	Solid	Moisture	
600-72840-19 DU	2013-RMSB-1 (5-5.5)	Total/NA	Solid	Moisture	
600-72840-20	2013-RMSB-1 (6)	Total/NA	Solid	Moisture	
600-72840-21	DUP 16	Total/NA	Solid	Moisture	

Analysis Batch: 105836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-22	2013-RMSB-2 (2.5-5)	Total/NA	Solid	Moisture	
600-72840-23	2013-RMSB-2 (5-6)	Total/NA	Solid	Moisture	

Client Sample ID: 2013-WMU6-1 (0.9-2)

Lab Sample ID: 600-72840-1

Date Collected: 05/07/13 15:27
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 11:58	TWR	TAL HOU
Total/NA	Prep	3050B	DL		105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	105888	05/10/13 16:09	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-WMU14-2 (0.9-2)

Lab Sample ID: 600-72840-4

Date Collected: 05/07/13 15:54
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:08	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-WMU16-1 (0.9-2)

Lab Sample ID: 600-72840-7

Date Collected: 05/07/13 16:11
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:11	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-WMU14-3 (0.9-2)

Lab Sample ID: 600-72840-10

Date Collected: 05/07/13 16:34
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:13	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-STB-9 (5-5.5)

Lab Sample ID: 600-72840-13

Date Collected: 05/07/13 16:50
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:16	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-8 (2.1-3.1)

Lab Sample ID: 600-72840-14

Date Collected: 05/08/13 10:42
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:25	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-8 (5-7)

Lab Sample ID: 600-72840-15

Date Collected: 05/08/13 10:43
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:28	TWR	TAL HOU
Total/NA	Prep	3050B	DL		105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	105888	05/10/13 16:26	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-8 (7.5)

Lab Sample ID: 600-72840-16

Date Collected: 05/08/13 10:44
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:30	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-1 (1.5-2)

Lab Sample ID: 600-72840-17

Date Collected: 05/08/13 12:10
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 67.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:33	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-1 (2-5)

Lab Sample ID: 600-72840-18

Date Collected: 05/08/13 12:11
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:35	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-1 (5-5.5)

Lab Sample ID: 600-72840-19

Date Collected: 05/08/13 12:12
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:38	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-1 (6)

Lab Sample ID: 600-72840-20

Date Collected: 05/08/13 12:13
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:40	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: DUP 16

Lab Sample ID: 600-72840-21

Date Collected: 05/08/13 00:00
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:43	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105808	05/09/13 15:55	MB	TAL HOU

Client Sample ID: 2013-RMSB-2 (2.5-5)

Lab Sample ID: 600-72840-22

Date Collected: 05/08/13 13:42
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105880	05/10/13 11:03	WS	TAL HOU
Total/NA	Prep	3550B			105792	05/09/13 14:48	MRA	TAL HOU
Total/NA	Analysis	8270C LL		1	105913	05/10/13 12:31	JH	TAL HOU
Total/NA	Prep	7471A			105732	05/09/13 10:50	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105744	05/09/13 12:32	MJT	TAL HOU
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 12:45	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105836	05/09/13 17:25	MB	TAL HOU

Client Sample ID: 2013-RMSB-2 (5-6)

Lab Sample ID: 600-72840-23

Date Collected: 05/08/13 13:43
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	105880	05/10/13 11:26	WS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Client Sample ID: 2013-RMSB-2 (5-6)
Date Collected: 05/08/13 13:43
Date Received: 05/09/13 08:38

Lab Sample ID: 600-72840-23
Matrix: Solid
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B	DL		105792	05/09/13 14:48	MRA	TAL HOU
Total/NA	Analysis	8270C LL	DL	10	105913	05/10/13 17:48	JH	TAL HOU
Total/NA	Prep	3550B			105792	05/09/13 14:48	MRA	TAL HOU
Total/NA	Analysis	8270C LL		1	105913	05/10/13 12:58	JH	TAL HOU
Total/NA	Prep	7471A			105732	05/09/13 10:50	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105744	05/09/13 12:34	MJT	TAL HOU
Total/NA	Prep	3050B			105785	05/09/13 13:32	NER	TAL HOU
Total/NA	Analysis	6010B		1	105888	05/10/13 13:02	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105836	05/09/13 17:25	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

Tes THE LE/

600-72840 Chain of Custody

5/30/2013

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	will Vienne	5/7/2013	243487
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of**
2201 Double Creek Dr. Suite 400	512/671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb,Cd	Special Instructions/ Conditions of Receipt
2013-WMU6-1 (0.9-2)	5/7/13	1527				X							1	X	
2013-WMU6-1 (2-4)		1528											1		HOLD
2013-WMU6-1 (4-5)		1529											1		HOLD
2013-WMU14-2 (0.9-2)		1554											1		
2013-WMU14-2 (2-4)		1555											1		HOLD
2013-WMU14-2 (4-5)		1556											1		HOLD
2013-WMU16-1 (0.9-2)		1611											1		
2013-WMU16-1 (2-4)		1612											1		HOLD
2013-WMU16-1 (4-5)		1613											1		HOLD
2013-WMU14-3 (0.9-2)		1634											1		
2013-WMU14-3 (2-4)		1635											1		HOLD
2013-WMU14-3 (4-5)	↓	1637				↓							1	↓	HOLD

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: P. Ferrell	5/8/13	1500	1. Received By: McCowen	5/8/13	1500
2. Relinquished By: McCowen	5/8/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:	05/09/13	0838

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243488
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of ____**
2201 Double Creek Dr. Suite 400	512.671.3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb,Cd	RCRA Metals	SVOCs	VOCs	Special Instructions/ Conditions of Receipt
2013-STB-9(5-5.5)	5/7/13	1650				X							X	X				
~~2013-STB-9(~~ PF																		
2013-RMSB-8(2.1-3.1)	5/8/13	1042				X							1	X				
2013-RMSB-8(5-7)		1043											1					
2013-RMSB-8(7.5)		1044											1					
2013-RMSB-1(1.5-2)		1210											1					
2013-RMSB-1(2-5)		1211											1					
2013-RMSB-1(5-5.5)		1212											1					
2013-RMSB-1(6)		1213											1					
DUP 16		--											1					
2013-RMSB-2(2.5-5)		1342											2	~~X~~	X	X	X	
2013-RMSB-2(5-6)		1343											2	~~X~~	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	P. Fossil	5/8/13	1500	McCown	5/8/13	1500
2.	McCown	5/8/13	1730			
3.					05/09/13	0838

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/30/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-1

Login Number: 72840

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72840-2
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
5/30/2013 8:56:19 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 15
QC Association Summary 16
Lab Chronicle 17
Certification Summary 18
Chain of Custody 19
Receipt Checklists 21

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72840-2

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/30/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775, 107103- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				3
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775, 107103- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72840-2
Reviewer Name: TWR	Prep Batch Number(s): 600-106775, 107103- ICP

ER #[1]	DESCRIPTION
1	Lead was detected above the MDL, but below the MQL in the prep blank for batch 106775. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recoveries in samples 72840-2DL MS and MSD were outside acceptance limits, but were not flagged due to the background sample result being greater than four times the spike added concentration. Method performance is demonstrated by acceptable LCS recoveries
3	The lead SDL was elevated in samples 72840-2 due to the dilution necessary to bring this analyte to within linear dynamic range.
4	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72840-2

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72840-2

Comments
No additional comments.

Receipt
The samples were received on 5/9/2013 8:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.8º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72840-2	2013-WMU6-1 (2-4)	Solid	05/07/13 15:28	05/09/13 08:38
600-72840-3	2013-WMU6-1 (4-5)	Solid	05/07/13 15:29	05/09/13 08:38

Client Sample ID: 2013-WMU6-1 (2-4)

Lab Sample ID: 600-72840-2

Date Collected: 05/07/13 15:28
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 77.6

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33200	b	62.5	13.1	mg/Kg	☼	05/23/13 09:57	05/23/13 15:31	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		1.0	1.0	%			05/22/13 12:58	1
Percent Solids	78		1.0	1.0	%			05/22/13 12:58	1

Client Sample ID: 2013-WMU6-1 (4-5)

Lab Sample ID: 600-72840-3

Date Collected: 05/07/13 15:29
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 76.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	46.5		0.633	0.133	mg/Kg	☼	05/29/13 09:57	05/29/13 14:17	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		1.0	1.0	%			05/28/13 17:32	1
Percent Solids	77		1.0	1.0	%			05/28/13 17:32	1

Qualifiers

Metals

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-106775/1-A
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106775

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.1100	J	0.500	0.105	mg/Kg		05/23/13 09:57	05/23/13 13:27	1

Lab Sample ID: LCSSRM 600-106775/2-A
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106775

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	74.75		mg/Kg		97.2	81.3 - 118.7

Lab Sample ID: MB 600-107103/1-A
Matrix: Solid
Analysis Batch: 107081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107103

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.105	U	0.500	0.105	mg/Kg		05/29/13 09:57	05/29/13 14:12	1

Lab Sample ID: LCSSRM 600-107103/2-A
Matrix: Solid
Analysis Batch: 107081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107103

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	76.9	75.87		mg/Kg		98.7	81.3 - 118.7

Method: 6010B - Metals (ICP) - DL

Lab Sample ID: 600-72840-2 MS
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: 2013-WMU6-1 (2-4)
Prep Type: Total/NA
Prep Batch: 106775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead - DL	33200	b	61.4	52360	4	mg/Kg	☼	31148	75 - 125

Lab Sample ID: 600-72840-2 MSD
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: 2013-WMU6-1 (2-4)
Prep Type: Total/NA
Prep Batch: 106775

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead - DL	33200	b	60.8	46570	4	mg/Kg	☼	21912	75 - 125	12	20

Lab Sample ID: 600-72840-2 DU
Matrix: Solid
Analysis Batch: 106793

Client Sample ID: 2013-WMU6-1 (2-4)
Prep Type: Total/NA
Prep Batch: 106775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead - DL	33200	b	28820		mg/Kg	☼	14	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72840-2 DU
Matrix: Solid
Analysis Batch: 106681

Client Sample ID: 2013-WMU6-1 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	22			15	F	%				40	20
Percent Solids	78			85		%				9	20

Lab Sample ID: 600-72840-3 DU
Matrix: Solid
Analysis Batch: 107068

Client Sample ID: 2013-WMU6-1 (4-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	23			23		%				0.2	20
Percent Solids	77			77		%				0.06	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Metals

Prep Batch: 106775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-2 - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	3050B	
600-72840-2 DU - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	3050B	
600-72840-2 MS - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	3050B	
600-72840-2 MSD - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	3050B	
LCSSRM 600-106775/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-106775/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 106793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-2 - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	6010B	106775
600-72840-2 DU - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	6010B	106775
600-72840-2 MS - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	6010B	106775
600-72840-2 MSD - DL	2013-WMU6-1 (2-4)	Total/NA	Solid	6010B	106775
LCSSRM 600-106775/2-A	Lab Control Sample	Total/NA	Solid	6010B	106775
MB 600-106775/1-A	Method Blank	Total/NA	Solid	6010B	106775

Analysis Batch: 107081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-3	2013-WMU6-1 (4-5)	Total/NA	Solid	6010B	107103
LCSSRM 600-107103/2-A	Lab Control Sample	Total/NA	Solid	6010B	107103
MB 600-107103/1-A	Method Blank	Total/NA	Solid	6010B	107103

Prep Batch: 107103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-3	2013-WMU6-1 (4-5)	Total/NA	Solid	3050B	
LCSSRM 600-107103/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-107103/1-A	Method Blank	Total/NA	Solid	3050B	

General Chemistry

Analysis Batch: 106681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-2	2013-WMU6-1 (2-4)	Total/NA	Solid	Moisture	
600-72840-2 DU	2013-WMU6-1 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 107068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72840-3	2013-WMU6-1 (4-5)	Total/NA	Solid	Moisture	
600-72840-3 DU	2013-WMU6-1 (4-5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Client Sample ID: 2013-WMU6-1 (2-4)

Lab Sample ID: 600-72840-2

Date Collected: 05/07/13 15:28
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	DL		106775	05/23/13 09:57	NER	TAL HOU
Total/NA	Analysis	6010B	DL	100	106793	05/23/13 15:31	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106681	05/22/13 12:58	AS	TAL HOU

Client Sample ID: 2013-WMU6-1 (4-5)

Lab Sample ID: 600-72840-3

Date Collected: 05/07/13 15:29
Matrix: Solid
Date Received: 05/09/13 08:38
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			107103	05/29/13 09:57	NER	TAL HOU
Total/NA	Analysis	6010B		1	107081	05/29/13 14:17	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	107068	05/28/13 17:32	MB	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72840-2

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

Tes THE LE/

600-72840 Chain of Custody

5/30/2013

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	will Vienne	5/7/2013	243487
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of**
2201 Double Creek Dr. Suite 4004	512/671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb,Cd	Special Instructions/ Conditions of Receipt
2013-WMU6-1 (0.9-2)	5/7/13	1527				X							1	X	
2013-WMU6-1 (2-4)		1528											1		HOLD
2013-WMU6-1 (4-5)		1529											1		HOLD
2013-WMU14-2 (0.9-2)		1554											1		
2013-WMU14-2 (2-4)		1555											1		HOLD
2013-WMU14-2 (4-5)		1556											1		HOLD
2013-WMU16-1 (0.9-2)		1611											1		
2013-WMU16-1 (2-4)		1612											1		HOLD
2013-WMU16-1 (4-5)		1613											1		HOLD
2013-WMU14-3 (0.9-2)		1634											1		
2013-WMU14-3 (2-4)		1635											1		HOLD
2013-WMU14-3 (4-5)		1637											1		HOLD

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: P. Ferrell	5/8/13	1500	1. Received By: McCowen	5/8/13	1500
2. Relinquished By: McCowen	5/8/13	1730	2. Received By:		
3. Relinquished By:			3. Received By:	05/09/13	0838

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/7/2013	243488
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of ____**
2201 Double Creek Dr. Suite 400	512.671.3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO, TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb,Cd	RCRA Metals	SVOCs	VOCs	Special Instructions/ Conditions of Receipt
2013-STB-9(5-5.5)	5/7/13	1650				X							X	X				
~~2013-STB-9(~~ PF																		
2013-RMSB-8(2.1-3.1)	5/8/13	1042				X							1	X				
2013-RMSB-8(5-7)	"	1043				"							1	"				
2013-RMSB-8(7.5)		1044											1					
2013-RMSB-1(1.5-2)		1210											1					
2013-RMSB-1(2-5)		1211											1					
2013-RMSB-1(5-5.5)		1212											1					
2013-RMSB-1(6)		1213											1					
DUP 16		--											1					
2013-RMSB-2(2.5-5)		1342											2	~~X~~	X	X	X	
2013-RMSB-2(5-6)	↓	1343				↓							2	~~X~~	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: P. Fossil	5/8/13	1500	1. Received By: McCown	5/8/13	1500
2. Relinquished By: McCown	5/8/13	1730	2. Received By:		
3. Relinquished By:			3. Received By: Federal Express	05/09/13	0838

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5/30/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72840-2

Login Number: 72840

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-72906-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec
Revision: 1

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/20/2013 3:29:03 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 22
Method Summary 23
Sample Summary 24
Client Sample Results 25
Definitions/Glossary 42
Surrogate Summary 43
QC Sample Results 44
Default Detection Limits 61
QC Association Summary 64
Lab Chronicle 68
Certification Summary 73
Chain of Custody 74
Receipt Checklists 76

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-72906-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		05/21/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105897, 105922- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				2
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105897, 105922- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	5
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105897, 105922- ICP

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	Barium was detected above the MDL, but below the MQL in the prep blanks for batches 105897 and 105922. The levels of detection are below the recommended reporting limit and the appropriate flags have been applied.
3	The arsenic and lead RPDs between samples 72906-2 and 72906-2 MD were above acceptance limits due to the non-homogenous nature of the samples.
4	The lead SDL was elevated in samples 72906-15 due to the dilution necessary to bring this analyte to within linear dynamic range.
5	The laboratory selected samples from other groups to perform as the PDS/SDs.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105944- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105944- Mercury

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-72906
Reviewer Name: TWR	Prep Batch Number(s): 600-105944- Mercury

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	The laboratory selected a sample from another group to perform as the MS/MSD.
3	The laboratory selected a sample from another group to perform as the DUP.
4	The laboratory selected a sample from another group to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72906
Reviewer Name: YX	Prep Batch Number: 600-105880 and 105934-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				2
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		3
		Were MS/MSD RPDs within laboratory QC limits?			X		3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?		X			4

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72906
Reviewer Name: YX	Prep Batch Number: 600-105880 and 105934-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/13/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number: 600-72906
Reviewer Name: YX	Prep Batch Number: 600-105880 and 105934-VOA

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	Chloroform was detected above the MDL, but below the MQL in the method blanks for batches 600-105880 and 105934. The levels of detection are below the recommended reporting limit and the appropriate flags have been applied to the report.
3	The laboratory selected samples from other groups to perform as the MS/MSDs.
4	The laboratory is not NELAC certified for Bromomethane. Recertification is in progress.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72906
Reviewer Name: JOH	Prep Batch Number(s): 600-105942, 106045 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			2
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72906
Reviewer Name: JOH	Prep Batch Number(s): 600-105942, 106045 - SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX Project	Laboratory Job Number 600-72906
Reviewer Name: JOH	Prep Batch Number(s): 600-105942, 106045 - SV

ER #[1]	DESCRIPTION
1	See Case Narrative.
2	Surrogate compounds were inadvertently omitted during the extraction process for samples 600-72906-6MS/MSD. The method blank (MB) and laboratory control sample (LCS) recoveries are within control limits. These results have been reported and qualified. Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. Sample 600-72906-9 contained an allowable number of surrogate compounds outside limits. These results have been reported and qualified.
3	The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 105942 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix: Solid
Method: 8260B
Preparation: Wei Shen
Date Analyzed: 2/14/2013
Date Prepared: 2/14/2013
TALs Batches: 99613
Units: ug/Kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Chloromethane	1.66	5	3.47	10
Vinyl Chloride	0.9	5	1.06	10
Bromomethane	1.78	5	0.922	10
Chloroethane	1.4	5	0	10
1,1-Dichloroethene	1.22	5	3.23	5
trans-1,2-Dichloroethene	1.14	5	3.72	5
Acetone	1.66	5	5.94	10
Methylene Chloride	2.19	5	4.55	10
Methyl tert-butyl ether	1.83	5	3.35	5
cis-1,2-Dichloroethene	0.83	5	4.54	5
2-Butanone (MEK)	1.9	5	11.1	10
Carbon Tetrachloride	1.13	5	3.43	5
Benzene	0.63	5	4.33	5
1,2-Dichloroethane	0.9	5	3.98	5
Trichloroethene	1.4	5	4.19	5
1,1,1-Trichloroethane	0.74	5	3.43	5
1,1-Dichloroethane	0.87	5	2.79	5
1,2-Dichloropropane	0.71	5	4.58	5
1,4-Dioxane	62.07	12.5	522	500
cis-1,3-Dichloropropene	0.54	5	4.5	5
4-Methyl-2-pentanone	1.47	5	10.3	10
Toluene	1.38	5	4.35	5
trans-1,3-Dichloropropene	0.58	5	3.78	5
1,1,2-Trichloroethane	0.73	5	4.88	5
Tetrachloroethene	1.4	5	3.84	5
2-Hexanone	1.01	5	9.16	10
Chlorodibromomethane	0.94	5	3.95	5
Chlorobenzene	0.96	5	4.64	5
Ethylbenzene	1.02	5	4.51	5
o-Xylene	1.13	5	4.64	5
Xylenes (total)	1.13	5	13.8	5
Styrene	0.71	5	4.45	5
Bromoform	1.37	5	4.54	5
1,1,2,2-Tetrachloroethane	0.87	5	5.75	5
1,3,5-Trimethylbenzene	1.6	5	3.92	5
1,2,4-Trimethylbenzene	0.92	5	4.18	5
sec-Butylbenzene	0.7	5	4.1	5
n-Butylbenzene	0.58	5	4.09	5
Naphthalene	2.37	5	33.05	10

Chloroform	5.74	5	3.75	5
1,2 Dichloroethene, Total	1.9	5	8.27	5
Carbon Disulfide	0.55	5	6.4	5
Dichlorobromomethane	0.66	5	4.3	5
m-Xylene & P-Xylene	1.52	5	9.19	10

Quality Control Report

Detection Check Standard

Matrix:	Soil
Method:	8270C LL
Preparation:	3550B
Date Analyzed:	1/7/2013
Date Prepared:	1/7/2013
Lab Sample ID:	600-96737/3-A
Units:	ug/Kg

Analyte	MDL	DCS Spike	DCS Result	MQL
Pyridine	3.52	83.5	26.97	16.67
N-Nitrosodimethylamine	4.19	8.35	7.960	16.67
bis (2-Chloroisopropyl) ether	8.84	8.35	8.390	16.67
Aniline	2.98	83.5	4.66	16.67
Phenol	4.24	8.35	5.661	16.67
bis(2-Chloroethyl)ether	1.65	8.35	8.591	16.67
2-Chlorophenol	1.97	8.35	6.460	16.67
1,3-Dichlorobenzene	1.54	8.35	7.825	16.67
1,4-Dichlorobenzene	2.25	8.35	10.422	16.67
1,2-Dichlorobenzene	3.02	8.35	10.622	16.67
Benzyl alcohol	5.83	8.35	5.461	16.67
2-Methylphenol (o-cresol)	3.23	8.35	6.860	16.67
3&4 Methylphenol (m&p-cresols)	2.79	8.35	3.296	16.67
N-Nitroso-di-n-propylamine	2.22	8.35	8.857	16.67
Hexachloroethane	2.31	8.35	9.423	16.67
Dibenzo(a,h)anthracene	3.63	8.35	31.102	16.67
Indeno(1,2,3-cd)pyrene	3.5	8.35	31.068	16.67
Nitrobenzene	2.96	8.35	8.857	16.67
Isophorone	1	8.35	7.425	16.67
2-Nitrophenol	3.86	8.35	16.150	16.67
Benzoic acid	32.76	167	323.34	16.67
2,4-Dimethylphenol	8.58	8.35	3.663	16.67
bis(2-Chloroethoxy)methane	1.42	8.35	7.925	16.67
2,4-Dichlorophenol	3.87	8.35	4.762	16.67
1,2,4-Trichlorobenzene	2.1	8.35	10.589	16.67
Naphthalene	1.35	8.35	7.725	16.67
Benzo(a)pyrene	1.61	8.35	11.288	16.67
Hexachlorobutadiene	1.92	8.35	9.723	16.67
4-Chloro-3-methylphenol	15.58	8.35	7.659	16.67
2-Methylnaphthalene	2.74	8.35	7.792	16.67
1-Methylnaphthalene	1.57	8.35	9.190	16.67
Benzo(k)fluoranthene	1.49	8.35	8.391	16.67
Hexachlorocyclopentadiene	4.61	8.35	10.656	16.67
2,4,6-Trichlorophenol	2.68	8.35	11.954	16.67
2,4,5-Trichlorophenol	10.01	8.35	15.417	16.67
2-Chloronaphthalene	1.21	8.35	7.359	16.67
2-Nitroaniline	4.89	8.35	23.576	16.67
1,4-Dinitrobenzene	16.67	8.35	30.103	16.67
1,3-Dinitrobenzene	2.96	8.35	23.576	16.67
1,2-Dinitrobenzene	16.67	8.35	17.082	16.67

Dimethylphthalate	4.89	8.35	7.992	16.67
Acenaphthylene	1	8.35	7.026	16.67
2,6-Dinitrotoluene	2.95	8.35	16.084	16.67
Benzo(b)fluoranthene	1.72	8.35	20.013	16.67
Acenaphthene	1.44	8.35	8.158	16.67
Di-n-octylphthalate	1.9	8.35	63.930	16.67
4-Nitrophenol	5.08	83.5	81.25	16.67
Dibenzofuran	1.78	8.35	8.025	16.67
2,4-Dinitrotoluene	3.61	8.35	14.552	16.67
2,3,4,6-Tetrachlorophenol	16.67	8.35	14.452	16.67
2,3,5,6-Tetrachlorophenol	16.67	8.35	13.486	16.67
Diethylphthalate	8.43	8.35	19.147	16.67
4-Chlorophenyl-phenylether	1.8	8.35	9.091	16.67
Fluorene	2.36	8.35	9.057	16.67
4-Nitroaniline	11.15	16.7	35.630	16.67
Chrysene	1.02	8.35	9.257	16.67
4,6-Dinitro-2-methylphenol	4.98	83.5	39.96	16.67
N-Nitrosodiphenylamine	1.98	83.5	5.33	16.67
Diphenylamine	1.94	83.5	5.33	16.67
1,2-Diphenylhydrazine	1.62	8.35	6.093	16.67
Azobenzene	1.85	8.35	6.626	16.67
4-Bromophenyl-phenylether	2.84	8.35	8.691	16.67
Hexachlorobenzene	1.52	16.7	16.680	16.67
Pentachlorophenol	4	8.35	55.944	16.67
Phenanthrene	4.95	8.35	8.558	16.67
Anthracene	1.28	8.35	6.826	16.67
Carbazole	3.12	8.35	6.027	16.67
Di-n-butylphthalate	2.59	8.35	19.580	16.67
Fluoranthene	3.11	8.35	7.958	16.67
Benzidine	9.02	16.7		16.67
Pyrene	1.83	8.35	8.857	16.67
Butylbenzylphthalate	6.19	8.35	28.338	16.67
3,3'-Dichlorobenzidine	10.16	8.35		16.67
Benzo(a)anthracene	1.38	8.35	9.257	16.67
bis(2-Ethylhexyl)phthalate	5.37	8.35	34.632	16.67
Benzo(g,h,i)perylene	5.07	8.35	15.318	16.67
4-Chloroaniline	5.82	8.35	2.630	16.67
3-Nitroaniline	7.15	8.35	19.913	16.67
2,4-Dinitrophenol	16.67	8.35		16.67

Detection Check Standard

Matrix:	Soil
Method:	7471
Preparation:	7471p
Date Analyzed:	2/14/2013
Date Prepared:	2/13/2013
Instrument:	FIMS100
TALS Batches:	99546, 99447p
Prep/Reagent Factor =	83.33
Units:	ug/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Mercury	3.58	8.33	8.75	50

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-72906-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-72906-1

Comments
No additional comments.

Receipt
The samples were received on 5/10/2013 8:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): Dup 18. No date or time was present on the sample bottle, so the receipt date was used for login purposes.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-72906-1	2013-RMSB-3 (1.5-2)	Solid	05/08/13 15:13	05/10/13 08:34
600-72906-2	2013-RMSB-3 (2-3)	Solid	05/08/13 15:14	05/10/13 08:34
600-72906-3	2013-RMSB-3 (5-5.5)	Solid	05/08/13 15:15	05/10/13 08:34
600-72906-4	2013-RMSB-3 (6)	Solid	05/08/13 15:16	05/10/13 08:34
600-72906-5	Dup 17	Solid	05/08/13 00:00	05/10/13 08:34
600-72906-6	2013-RMSB-10 (1.3-2)	Solid	05/08/13 16:20	05/10/13 08:34
600-72906-7	2013-RMSB-10 (2-3)	Solid	05/08/13 16:21	05/10/13 08:34
600-72906-8	2013-RMSB-10 (5-6)	Solid	05/08/13 16:22	05/10/13 08:34
600-72906-9	2013-RMSB-10 (7)	Solid	05/08/13 16:23	05/10/13 08:34
600-72906-10	2013-RMSB-7 (1.5-2)	Solid	05/08/13 16:56	05/10/13 08:34
600-72906-11	2013-RMSB-7 (2-4)	Solid	05/08/13 16:57	05/10/13 08:34
600-72906-12	2013-RMSB-7 (5-6)	Solid	05/08/13 16:58	05/10/13 08:34
600-72906-13	2013-RMSB-7 (6.5)	Solid	05/08/13 16:55	05/10/13 08:34
600-72906-14	2013-RMSB-5 (2-5)	Solid	05/07/13 10:19	05/10/13 08:34
600-72906-15	MW-31 (0.9-2)	Solid	05/09/13 10:17	05/10/13 08:34
600-72906-16	MW-31 (5.8-8)	Solid	05/09/13 10:18	05/10/13 08:34
600-72906-17	MW-31 (9.5)	Solid	05/09/13 10:19	05/10/13 08:34
600-72906-18	Dup 18	Solid	05/10/13 00:00	05/10/13 08:34

Client Sample ID: 2013-RMSB-3 (1.5-2)

Lab Sample ID: 600-72906-1
Date Collected: 05/08/13 15:13
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 82.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.303**		0.297	0.0305	mg/Kg	☼	05/10/13 15:18	05/13/13 22:20	1
Lead	**56.4**		0.595	0.125	mg/Kg	☼	05/10/13 15:18	05/13/13 22:20	1
Arsenic	**6.19**		1.19	0.259	mg/Kg	☼	05/10/13 15:18	05/13/13 22:20	1
Selenium	0.308	U	2.38	0.308	mg/Kg	☼	05/10/13 15:18	05/13/13 22:20	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**82**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-3 (2-3)

Lab Sample ID: 600-72906-2
Date Collected: 05/08/13 15:14
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0283	U	0.276	0.0283	mg/Kg	☼	05/10/13 15:18	05/13/13 22:23	1
Lead	**8.78**		0.551	0.116	mg/Kg	☼	05/10/13 15:18	05/13/13 22:23	1
Arsenic	**4.08**		1.10	0.240	mg/Kg	☼	05/10/13 15:18	05/13/13 22:23	1
Selenium	0.285	U	2.20	0.285	mg/Kg	☼	05/10/13 15:18	05/13/13 22:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**85**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-3 (5-5.5)

Lab Sample ID: 600-72906-3
Date Collected: 05/08/13 15:15
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.719**		0.288	0.0295	mg/Kg	☼	05/10/13 15:18	05/13/13 22:39	1
Lead	**142**		0.575	0.121	mg/Kg	☼	05/10/13 15:18	05/13/13 22:39	1
Arsenic	**5.92**		1.15	0.251	mg/Kg	☼	05/10/13 15:18	05/13/13 22:39	1
Selenium	0.298	U	2.30	0.298	mg/Kg	☼	05/10/13 15:18	05/13/13 22:39	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**84**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-3 (6)

Lab Sample ID: 600-72906-4
Date Collected: 05/08/13 15:16
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 79.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.183**	**J**	0.316	0.0324	mg/Kg	☼	05/10/13 15:18	05/13/13 22:41	1
Lead	**37.6**		0.631	0.132	mg/Kg	☼	05/10/13 15:18	05/13/13 22:41	1
Arsenic	**3.95**		1.26	0.275	mg/Kg	☼	05/10/13 15:18	05/13/13 22:41	1

Client Sample ID: 2013-RMSB-3 (6)

Lab Sample ID: 600-72906-4
Date Collected: 05/08/13 15:16
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 79.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.327	U	2.53	0.327	mg/Kg	☼	05/10/13 15:18	05/13/13 22:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**79**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: Dup 17

Lab Sample ID: 600-72906-5
Date Collected: 05/08/13 00:00
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.233**	**J**	0.292	0.0299	mg/Kg	☼	05/10/13 15:18	05/13/13 22:43	1
Lead	**66.7**		0.583	0.122	mg/Kg	☼	05/10/13 15:18	05/13/13 22:43	1
Arsenic	**4.50**		1.17	0.254	mg/Kg	☼	05/10/13 15:18	05/13/13 22:43	1
Selenium	0.302	U	2.33	0.302	mg/Kg	☼	05/10/13 15:18	05/13/13 22:43	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**84**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-10 (1.3-2)

Lab Sample ID: 600-72906-6
Date Collected: 05/08/13 16:20
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0346**		0.0122	0.00203	mg/Kg	☼		05/10/13 18:55	1
Benzene	0.000772	U	0.00612	0.000772	mg/Kg	☼		05/10/13 18:55	1
Chlorobromomethane	0.00218	U	0.00612	0.00218	mg/Kg	☼		05/10/13 18:55	1
Bromoform	0.00168	U	0.00612	0.00168	mg/Kg	☼		05/10/13 18:55	1
Bromomethane	0.00102	U	0.0122	0.00102	mg/Kg	☼		05/10/13 18:55	1
2-Butanone (MEK)	0.00233	U	0.0122	0.00233	mg/Kg	☼		05/10/13 18:55	1
Carbon disulfide	0.000674	U	0.0122	0.000674	mg/Kg	☼		05/10/13 18:55	1
Carbon tetrachloride	0.00138	U	0.00612	0.00138	mg/Kg	☼		05/10/13 18:55	1
Dibromochloromethane	0.00115	U	0.00612	0.00115	mg/Kg	☼		05/10/13 18:55	1
Chlorobenzene	0.00118	U	0.00612	0.00118	mg/Kg	☼		05/10/13 18:55	1
Chloroethane	0.00171	U	0.0122	0.00171	mg/Kg	☼		05/10/13 18:55	1
Chloroform	**0.00127**	**J b**	0.00612	0.000808	mg/Kg	☼		05/10/13 18:55	1
Chloromethane	0.00203	U	0.0122	0.00203	mg/Kg	☼		05/10/13 18:55	1
1,1-Dichloroethane	0.00107	U	0.00612	0.00107	mg/Kg	☼		05/10/13 18:55	1
1,2-Dichloroethane	0.00110	U	0.00612	0.00110	mg/Kg	☼		05/10/13 18:55	1
1,1-Dichloroethene	0.00149	U	0.00612	0.00149	mg/Kg	☼		05/10/13 18:55	1
cis-1,2-Dichloroethene	0.00102	U	0.00612	0.00102	mg/Kg	☼		05/10/13 18:55	1
trans-1,2-Dichloroethene	0.00140	U	0.00612	0.00140	mg/Kg	☼		05/10/13 18:55	1
1,2-Dichloropropane	0.000870	U	0.00612	0.000870	mg/Kg	☼		05/10/13 18:55	1
cis-1,3-Dichloropropene	0.000661	U	0.00612	0.000661	mg/Kg	☼		05/10/13 18:55	1
trans-1,3-Dichloropropene	0.000710	U	0.00612	0.000710	mg/Kg	☼		05/10/13 18:55	1

Client Sample ID: 2013-RMSB-10 (1.3-2)
Date Collected: 05/08/13 16:20
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-6
Matrix: Solid
Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00125	U	0.00612	0.00125	mg/Kg	☼		05/10/13 18:55	1
2-Hexanone	0.00124	U	0.0122	0.00124	mg/Kg	☼		05/10/13 18:55	1
Methylene Chloride	0.00268	U	0.0122	0.00268	mg/Kg	☼		05/10/13 18:55	1
4-Methyl-2-pentanone (MIBK)	0.00180	U	0.0122	0.00180	mg/Kg	☼		05/10/13 18:55	1
Styrene	0.000870	U	0.00612	0.000870	mg/Kg	☼		05/10/13 18:55	1
1,1,2,2-Tetrachloroethane	0.00107	U	0.00612	0.00107	mg/Kg	☼		05/10/13 18:55	1
Tetrachloroethene	0.000870	U	0.00612	0.000870	mg/Kg	☼		05/10/13 18:55	1
Toluene	0.00169	U	0.00612	0.00169	mg/Kg	☼		05/10/13 18:55	1
1,1,1-Trichloroethane	0.000906	U	0.00612	0.000906	mg/Kg	☼		05/10/13 18:55	1
1,1,2-Trichloroethane	0.000894	U	0.00612	0.000894	mg/Kg	☼		05/10/13 18:55	1
Trichloroethene	0.00171	U	0.00612	0.00171	mg/Kg	☼		05/10/13 18:55	1
Vinyl acetate	0.00114	U	0.00612	0.00114	mg/Kg	☼		05/10/13 18:55	1
Vinyl chloride	0.00110	U	0.0122	0.00110	mg/Kg	☼		05/10/13 18:55	1
o-Xylene	0.00138	U	0.00612	0.00138	mg/Kg	☼		05/10/13 18:55	1
m-Xylene & p-Xylene	0.00186	U	0.0122	0.00186	mg/Kg	☼		05/10/13 18:55	1
Xylenes, Total	0.00138	U	0.00612	0.00138	mg/Kg	☼		05/10/13 18:55	1
Bromodichloromethane	0.000808	U	0.00612	0.000808	mg/Kg	☼		05/10/13 18:55	1
1,2-Dichloroethene, Total	0.00233	U	0.0122	0.00233	mg/Kg	☼		05/10/13 18:55	1
Methyl tert-butyl ether	0.00224	U	0.00612	0.00224	mg/Kg	☼		05/10/13 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*50 - 130*		*05/10/13 18:55*	*1*
Dibromofluoromethane	*102*		*68 - 140*		*05/10/13 18:55*	*1*
4-Bromofluorobenzene	*121*		*57 - 140*		*05/10/13 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 130*		*05/10/13 18:55*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00176	U	0.0204	0.00176	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Acenaphthylene	0.00122	U	0.0204	0.00122	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Anthracene	0.00156	U	0.0204	0.00156	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzidine	0.0110	U	0.102	0.0110	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzo[a]anthracene	0.00169	U	0.0204	0.00169	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzo[b]fluoranthene	0.00210	U	0.0204	0.00210	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzo[k]fluoranthene	0.00182	U	0.0204	0.00182	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzo[g,h,i]perylene	0.00620	U	0.0204	0.00620	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzo[a]pyrene	0.00197	U	0.0204	0.00197	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Bis(2-chloroethoxy)methane	0.00174	U	0.0204	0.00174	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Bis(2-chloroethyl)ether	0.00202	U	0.0204	0.00202	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Bis(2-ethylhexyl) phthalate	0.00656	U	0.0815	0.00656	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Bromophenyl phenyl ether	0.00347	U	0.0204	0.00347	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Butyl benzyl phthalate	0.00757	U	0.0815	0.00757	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Chloroaniline	0.00712	U	0.0204	0.00712	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Chloronaphthalene	0.00148	U	0.0204	0.00148	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Chlorophenyl phenyl ether	0.00220	U	0.0204	0.00220	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Carbazole	0.00381	U	0.0204	0.00381	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Chrysene	0.00125	U	0.0204	0.00125	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Di-n-butyl phthalate	0.00317	U	0.0815	0.00317	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Dibenz(a,h)anthracene	0.00444	U	0.0204	0.00444	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Dibenzofuran	0.00218	U	0.0204	0.00218	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Client Sample ID: 2013-RMSB-10 (1.3-2)
Date Collected: 05/08/13 16:20
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-6
Matrix: Solid
Percent Solids: 81.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00369	U	0.0204	0.00369	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
1,3-Dichlorobenzene	0.00188	U	0.0204	0.00188	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
1,4-Dichlorobenzene	0.00275	U	0.0204	0.00275	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
3,3'-Dichlorobenzidine	0.0124	U	0.0204	0.0124	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Diethyl phthalate	0.0103	U	0.0815	0.0103	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Dimethyl phthalate	0.00598	U	0.0815	0.00598	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4-Dinitrotoluene	0.00441	U	0.0204	0.00441	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Di-n-octyl phthalate	0.00232	U	0.0815	0.00232	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Fluoranthene	0.00380	U	0.0204	0.00380	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Fluorene	0.00289	U	0.0204	0.00289	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Hexachlorobenzene	0.00186	U	0.0204	0.00186	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Hexachlorocyclopentadiene	0.00564	U	0.0204	0.00564	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Hexachloroethane	0.00282	U	0.0204	0.00282	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Hexachlorobutadiene	0.00235	U	0.0204	0.00235	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Indeno[1,2,3-cd]pyrene	0.00428	U	0.0204	0.00428	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Isophorone	0.00122	U	0.0204	0.00122	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Methylnaphthalene	0.00335	U	0.0204	0.00335	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Naphthalene	0.00165	U	0.0204	0.00165	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Nitroaniline	0.00598	U	0.0204	0.00598	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
3-Nitroaniline	0.00874	U	0.0204	0.00874	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Nitroaniline	0.0136	U	0.0204	0.0136	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Nitrobenzene	0.00362	U	0.0204	0.00362	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
N-Nitrosodimethylamine	0.00512	U	0.0204	0.00512	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
N-Nitrosodiphenylamine	0.00231	U	0.0204	0.00231	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
N-Nitrosodi-n-propylamine	0.00271	U	0.0204	0.00271	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Phenanthrene	0.00605	U	0.0204	0.00605	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Pyrene	0.00224	U	0.0204	0.00224	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
1,2,4-Trichlorobenzene	0.00257	U	0.0204	0.00257	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Benzyl alcohol	0.00713	U	0.0204	0.00713	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Chloro-3-methylphenol	0.0190	U	0.0204	0.0190	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Chlorophenol	0.00241	U	0.0204	0.00241	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Methylphenol	0.00395	U	0.0204	0.00395	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
3 & 4 Methylphenol	0.00341	U	0.0407	0.00341	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4-Dichlorophenol	0.00473	U	0.0204	0.00473	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4-Dimethylphenol	0.0105	U	0.0204	0.0105	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4,6-Dinitro-2-methylphenol	0.00609	U	0.0204	0.00609	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4-Dinitrophenol	0.00577	U	0.122	0.00577	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2-Nitrophenol	0.00476	U	0.0204	0.00476	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
4-Nitrophenol	0.00621	U	0.0204	0.00621	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Pentachlorophenol	0.00489	U	0.204	0.00489	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
Phenol	0.00518	U	0.0204	0.00518	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4,5-Trichlorophenol	0.0122	U	0.0204	0.0122	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,4,6-Trichlorophenol	0.00328	U	0.0204	0.00328	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
2,6-Dinitrotoluene	0.00361	U	0.0204	0.00361	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1
bis (2-Chloroisopropyl) ether	0.0108	U	0.0204	0.0108	mg/Kg	☼	05/14/13 10:41	05/14/13 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*80*		*56 - 123*	*05/14/13 10:41*	*05/14/13 18:58*	*1*
Nitrobenzene-d5	*79*		*34 - 118*	*05/14/13 10:41*	*05/14/13 18:58*	*1*
2-Fluorophenol	*72*		*41 - 122*	*05/14/13 10:41*	*05/14/13 18:58*	*1*

Client Sample ID: 2013-RMSB-10 (1.3-2)

Lab Sample ID: 600-72906-6

Date Collected: 05/08/13 16:20
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*51 - 120*	*05/14/13 10:41*	*05/14/13 18:58*	*1*
2,4,6-Tribromophenol	*56*		*34 - 122*	*05/14/13 10:41*	*05/14/13 18:58*	*1*
Phenol-d5 (Surr)	*71*		*43 - 125*	*05/14/13 10:41*	*05/14/13 18:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12.9**		0.606	0.127	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Chromium	**9.51**		0.606	0.0614	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Cadmium	**23.5**		0.303	0.0311	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Barium	**55.3**	**b**	1.21	0.0364	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Arsenic	**5.07**		1.21	0.264	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Silver	0.144	U	0.606	0.144	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1
Selenium	**0.346**	**J**	2.43	0.314	mg/Kg	☼	05/10/13 15:18	05/13/13 22:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00439	U	0.0612	0.00439	mg/Kg	☼	05/13/13 07:00	05/13/13 10:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**82**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-10 (2-3)

Lab Sample ID: 600-72906-7

Date Collected: 05/08/13 16:21
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00205	U	0.0124	0.00205	mg/Kg	☼		05/11/13 15:50	1
Benzene	0.000779	U	0.00618	0.000779	mg/Kg	☼		05/11/13 15:50	1
Chlorobromomethane	0.00220	U	0.00618	0.00220	mg/Kg	☼		05/11/13 15:50	1
Bromoform	0.00169	U	0.00618	0.00169	mg/Kg	☼		05/11/13 15:50	1
Bromomethane	0.00103	U	0.0124	0.00103	mg/Kg	☼		05/11/13 15:50	1
2-Butanone (MEK)	0.00235	U	0.0124	0.00235	mg/Kg	☼		05/11/13 15:50	1
Carbon disulfide	0.000680	U	0.0124	0.000680	mg/Kg	☼		05/11/13 15:50	1
Carbon tetrachloride	0.00140	U	0.00618	0.00140	mg/Kg	☼		05/11/13 15:50	1
Dibromochloromethane	0.00116	U	0.00618	0.00116	mg/Kg	☼		05/11/13 15:50	1
Chlorobenzene	0.00119	U	0.00618	0.00119	mg/Kg	☼		05/11/13 15:50	1
Chloroethane	0.00173	U	0.0124	0.00173	mg/Kg	☼		05/11/13 15:50	1
Chloroform	**0.000861**	**J b**	0.00618	0.000816	mg/Kg	☼		05/11/13 15:50	1
Chloromethane	0.00205	U	0.0124	0.00205	mg/Kg	☼		05/11/13 15:50	1
1,1-Dichloroethane	0.00108	U	0.00618	0.00108	mg/Kg	☼		05/11/13 15:50	1
1,2-Dichloroethane	0.00111	U	0.00618	0.00111	mg/Kg	☼		05/11/13 15:50	1
1,1-Dichloroethene	0.00151	U	0.00618	0.00151	mg/Kg	☼		05/11/13 15:50	1
cis-1,2-Dichloroethene	0.00103	U	0.00618	0.00103	mg/Kg	☼		05/11/13 15:50	1
trans-1,2-Dichloroethene	0.00141	U	0.00618	0.00141	mg/Kg	☼		05/11/13 15:50	1
1,2-Dichloropropane	0.000878	U	0.00618	0.000878	mg/Kg	☼		05/11/13 15:50	1
cis-1,3-Dichloropropene	0.000668	U	0.00618	0.000668	mg/Kg	☼		05/11/13 15:50	1
trans-1,3-Dichloropropene	0.000717	U	0.00618	0.000717	mg/Kg	☼		05/11/13 15:50	1

Client Sample ID: 2013-RMSB-10 (2-3)
Date Collected: 05/08/13 16:21
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-7
Matrix: Solid
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00126	U	0.00618	0.00126	mg/Kg	☼		05/11/13 15:50	1
2-Hexanone	0.00125	U	0.0124	0.00125	mg/Kg	☼		05/11/13 15:50	1
Methylene Chloride	0.00271	U	0.0124	0.00271	mg/Kg	☼		05/11/13 15:50	1
4-Methyl-2-pentanone (MIBK)	0.00182	U	0.0124	0.00182	mg/Kg	☼		05/11/13 15:50	1
Styrene	0.000878	U	0.00618	0.000878	mg/Kg	☼		05/11/13 15:50	1
1,1,2,2-Tetrachloroethane	0.00108	U	0.00618	0.00108	mg/Kg	☼		05/11/13 15:50	1
Tetrachloroethene	0.000878	U	0.00618	0.000878	mg/Kg	☼		05/11/13 15:50	1
Toluene	0.00171	U	0.00618	0.00171	mg/Kg	☼		05/11/13 15:50	1
1,1,1-Trichloroethane	0.000915	U	0.00618	0.000915	mg/Kg	☼		05/11/13 15:50	1
1,1,2-Trichloroethane	0.000903	U	0.00618	0.000903	mg/Kg	☼		05/11/13 15:50	1
Trichloroethene	0.00173	U	0.00618	0.00173	mg/Kg	☼		05/11/13 15:50	1
Vinyl acetate	0.00115	U	0.00618	0.00115	mg/Kg	☼		05/11/13 15:50	1
Vinyl chloride	0.00111	U	0.0124	0.00111	mg/Kg	☼		05/11/13 15:50	1
o-Xylene	0.00140	U	0.00618	0.00140	mg/Kg	☼		05/11/13 15:50	1
m-Xylene & p-Xylene	0.00188	U	0.0124	0.00188	mg/Kg	☼		05/11/13 15:50	1
Xylenes, Total	0.00140	U	0.00618	0.00140	mg/Kg	☼		05/11/13 15:50	1
Bromodichloromethane	0.000816	U	0.00618	0.000816	mg/Kg	☼		05/11/13 15:50	1
1,2-Dichloroethene, Total	0.00235	U	0.0124	0.00235	mg/Kg	☼		05/11/13 15:50	1
Methyl tert-butyl ether	0.00226	U	0.00618	0.00226	mg/Kg	☼		05/11/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*50 - 130*		*05/11/13 15:50*	*1*
Dibromofluoromethane	*95*		*68 - 140*		*05/11/13 15:50*	*1*
4-Bromofluorobenzene	*119*		*57 - 140*		*05/11/13 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*		*05/11/13 15:50*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00178	U	0.0206	0.00178	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Acenaphthylene	0.00124	U	0.0206	0.00124	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Anthracene	0.00158	U	0.0206	0.00158	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzidine	0.0112	U	0.103	0.0112	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzo[a]anthracene	0.00171	U	0.0206	0.00171	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzo[b]fluoranthene	0.00213	U	0.0206	0.00213	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzo[k]fluoranthene	0.00184	U	0.0206	0.00184	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzo[g,h,i]perylene	0.00627	U	0.0206	0.00627	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzo[a]pyrene	0.00199	U	0.0206	0.00199	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Bis(2-chloroethoxy)methane	0.00176	U	0.0206	0.00176	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Bis(2-chloroethyl)ether	0.00204	U	0.0206	0.00204	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Bis(2-ethylhexyl) phthalate	**0.0222**	**J**	0.0824	0.00664	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Bromophenyl phenyl ether	0.00351	U	0.0206	0.00351	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Butyl benzyl phthalate	**0.0100**	**J**	0.0824	0.00765	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Chloroaniline	0.00720	U	0.0206	0.00720	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Chloronaphthalene	0.00150	U	0.0206	0.00150	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Chlorophenyl phenyl ether	0.00223	U	0.0206	0.00223	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Carbazole	0.00386	U	0.0206	0.00386	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Chrysene	0.00126	U	0.0206	0.00126	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Di-n-butyl phthalate	0.00320	U	0.0824	0.00320	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Dibenz(a,h)anthracene	0.00449	U	0.0206	0.00449	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Dibenzofuran	0.00220	U	0.0206	0.00220	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Client Sample ID: 2013-RMSB-10 (2-3)
Date Collected: 05/08/13 16:21
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-7
Matrix: Solid
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00373	U	0.0206	0.00373	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
1,3-Dichlorobenzene	0.00190	U	0.0206	0.00190	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
1,4-Dichlorobenzene	0.00278	U	0.0206	0.00278	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
3,3'-Dichlorobenzidine	0.0126	U	0.0206	0.0126	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Diethyl phthalate	**0.0381**	**J**	0.0824	0.0104	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Dimethyl phthalate	0.00605	U	0.0824	0.00605	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4-Dinitrotoluene	0.00446	U	0.0206	0.00446	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Di-n-octyl phthalate	0.00235	U	0.0824	0.00235	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Fluoranthene	0.00384	U	0.0206	0.00384	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Fluorene	0.00292	U	0.0206	0.00292	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Hexachlorobenzene	0.00188	U	0.0206	0.00188	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Hexachlorocyclopentadiene	0.00570	U	0.0206	0.00570	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Hexachloroethane	0.00286	U	0.0206	0.00286	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Hexachlorobutadiene	0.00237	U	0.0206	0.00237	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Indeno[1,2,3-cd]pyrene	0.00433	U	0.0206	0.00433	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Isophorone	0.00124	U	0.0206	0.00124	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Methylnaphthalene	0.00339	U	0.0206	0.00339	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Naphthalene	0.00167	U	0.0206	0.00167	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Nitroaniline	0.00605	U	0.0206	0.00605	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
3-Nitroaniline	0.00884	U	0.0206	0.00884	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Nitroaniline	0.0138	U	0.0206	0.0138	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Nitrobenzene	0.00366	U	0.0206	0.00366	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
N-Nitrosodimethylamine	0.00518	U	0.0206	0.00518	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
N-Nitrosodiphenylamine	0.00234	U	0.0206	0.00234	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
N-Nitrosodi-n-propylamine	0.00274	U	0.0206	0.00274	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Phenanthrene	0.00612	U	0.0206	0.00612	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Pyrene	0.00226	U	0.0206	0.00226	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
1,2,4-Trichlorobenzene	0.00260	U	0.0206	0.00260	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Benzyl alcohol	0.00721	U	0.0206	0.00721	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Chloro-3-methylphenol	0.0193	U	0.0206	0.0193	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Chlorophenol	0.00244	U	0.0206	0.00244	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Methylphenol	0.00399	U	0.0206	0.00399	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
3 & 4 Methylphenol	0.00345	U	0.0412	0.00345	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4-Dichlorophenol	0.00478	U	0.0206	0.00478	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4-Dimethylphenol	0.0106	U	0.0206	0.0106	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4,6-Dinitro-2-methylphenol	0.00616	U	0.0206	0.00616	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4-Dinitrophenol	0.00584	U	0.124	0.00584	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2-Nitrophenol	0.00481	U	0.0206	0.00481	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
4-Nitrophenol	0.00628	U	0.0206	0.00628	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Pentachlorophenol	0.00495	U	0.206	0.00495	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
Phenol	0.00524	U	0.0206	0.00524	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4,5-Trichlorophenol	0.0124	U	0.0206	0.0124	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,4,6-Trichlorophenol	0.00331	U	0.0206	0.00331	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
2,6-Dinitrotoluene	0.00365	U	0.0206	0.00365	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1
bis (2-Chloroisopropyl) ether	0.0109	U	0.0206	0.0109	mg/Kg	☼	05/12/13 14:09	05/13/13 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*112*		*56 - 123*	*05/12/13 14:09*	*05/13/13 14:15*	*1*
Nitrobenzene-d5	*106*		*34 - 118*	*05/12/13 14:09*	*05/13/13 14:15*	*1*
2-Fluorophenol	*102*		*41 - 122*	*05/12/13 14:09*	*05/13/13 14:15*	*1*

Client Sample ID: 2013-RMSB-10 (2-3)
Lab Sample ID: 600-72906-7

Date Collected: 05/08/13 16:21
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*51 - 120*	*05/12/13 14:09*	*05/13/13 14:15*	*1*
2,4,6-Tribromophenol	*71*		*34 - 122*	*05/12/13 14:09*	*05/13/13 14:15*	*1*
Phenol-d5 (Surr)	*96*		*43 - 125*	*05/12/13 14:09*	*05/13/13 14:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1030**		0.600	0.126	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Chromium	**12.9**		0.600	0.0608	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Cadmium	**17.2**		0.300	0.0308	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Barium	**87.2**	**b**	1.20	0.0360	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Arsenic	**7.10**		1.20	0.262	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Silver	0.143	U	0.600	0.143	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1
Selenium	0.311	U	2.40	0.311	mg/Kg	☼	05/10/13 15:18	05/13/13 22:48	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0125**	**J**	0.0618	0.00443	mg/Kg	☼	05/13/13 07:00	05/13/13 10:28	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**81**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-10 (5-6)
Lab Sample ID: 600-72906-8

Date Collected: 05/08/13 16:22
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.181**		0.0122	0.00203	mg/Kg	☼		05/11/13 16:13	1
Benzene	0.000770	U	0.00611	0.000770	mg/Kg	☼		05/11/13 16:13	1
Chlorobromomethane	0.00217	U	0.00611	0.00217	mg/Kg	☼		05/11/13 16:13	1
Bromoform	0.00167	U	0.00611	0.00167	mg/Kg	☼		05/11/13 16:13	1
Bromomethane	0.00101	U	0.0122	0.00101	mg/Kg	☼		05/11/13 16:13	1
2-Butanone (MEK)	**0.0230**		0.0122	0.00232	mg/Kg	☼		05/11/13 16:13	1
Carbon disulfide	0.000672	U	0.0122	0.000672	mg/Kg	☼		05/11/13 16:13	1
Carbon tetrachloride	0.00138	U	0.00611	0.00138	mg/Kg	☼		05/11/13 16:13	1
Dibromochloromethane	0.00115	U	0.00611	0.00115	mg/Kg	☼		05/11/13 16:13	1
Chlorobenzene	0.00117	U	0.00611	0.00117	mg/Kg	☼		05/11/13 16:13	1
Chloroethane	0.00171	U	0.0122	0.00171	mg/Kg	☼		05/11/13 16:13	1
Chloroform	**0.00115**	**J b**	0.00611	0.000806	mg/Kg	☼		05/11/13 16:13	1
Chloromethane	0.00203	U	0.0122	0.00203	mg/Kg	☼		05/11/13 16:13	1
1,1-Dichloroethane	0.00106	U	0.00611	0.00106	mg/Kg	☼		05/11/13 16:13	1
1,2-Dichloroethane	0.00110	U	0.00611	0.00110	mg/Kg	☼		05/11/13 16:13	1
1,1-Dichloroethene	0.00149	U	0.00611	0.00149	mg/Kg	☼		05/11/13 16:13	1
cis-1,2-Dichloroethene	0.00101	U	0.00611	0.00101	mg/Kg	☼		05/11/13 16:13	1
trans-1,2-Dichloroethene	0.00139	U	0.00611	0.00139	mg/Kg	☼		05/11/13 16:13	1
1,2-Dichloropropane	0.000867	U	0.00611	0.000867	mg/Kg	☼		05/11/13 16:13	1
cis-1,3-Dichloropropene	0.000660	U	0.00611	0.000660	mg/Kg	☼		05/11/13 16:13	1
trans-1,3-Dichloropropene	0.000708	U	0.00611	0.000708	mg/Kg	☼		05/11/13 16:13	1

Client Sample ID: 2013-RMSB-10 (5-6)
Date Collected: 05/08/13 16:22
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-8
Matrix: Solid
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00125	U	0.00611	0.00125	mg/Kg	☼		05/11/13 16:13	1
2-Hexanone	0.00123	U	0.0122	0.00123	mg/Kg	☼		05/11/13 16:13	1
Methylene Chloride	0.00268	U	0.0122	0.00268	mg/Kg	☼		05/11/13 16:13	1
4-Methyl-2-pentanone (MIBK)	0.00180	U	0.0122	0.00180	mg/Kg	☼		05/11/13 16:13	1
Styrene	0.000867	U	0.00611	0.000867	mg/Kg	☼		05/11/13 16:13	1
1,1,2,2-Tetrachloroethane	0.00106	U	0.00611	0.00106	mg/Kg	☼		05/11/13 16:13	1
Tetrachloroethene	0.000867	U	0.00611	0.000867	mg/Kg	☼		05/11/13 16:13	1
Toluene	0.00169	U	0.00611	0.00169	mg/Kg	☼		05/11/13 16:13	1
1,1,1-Trichloroethane	0.000904	U	0.00611	0.000904	mg/Kg	☼		05/11/13 16:13	1
1,1,2-Trichloroethane	0.000892	U	0.00611	0.000892	mg/Kg	☼		05/11/13 16:13	1
Trichloroethene	0.00171	U	0.00611	0.00171	mg/Kg	☼		05/11/13 16:13	1
Vinyl acetate	0.00114	U	0.00611	0.00114	mg/Kg	☼		05/11/13 16:13	1
Vinyl chloride	0.00110	U	0.0122	0.00110	mg/Kg	☼		05/11/13 16:13	1
o-Xylene	0.00138	U	0.00611	0.00138	mg/Kg	☼		05/11/13 16:13	1
m-Xylene & p-Xylene	0.00186	U	0.0122	0.00186	mg/Kg	☼		05/11/13 16:13	1
Xylenes, Total	0.00138	U	0.00611	0.00138	mg/Kg	☼		05/11/13 16:13	1
Bromodichloromethane	0.000806	U	0.00611	0.000806	mg/Kg	☼		05/11/13 16:13	1
1,2-Dichloroethene, Total	0.00232	U	0.0122	0.00232	mg/Kg	☼		05/11/13 16:13	1
Methyl tert-butyl ether	**0.00316**	**J**	0.00611	0.00224	mg/Kg	☼		05/11/13 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*50 - 130*		*05/11/13 16:13*	*1*
Dibromofluoromethane	*98*		*68 - 140*		*05/11/13 16:13*	*1*
4-Bromofluorobenzene	*124*		*57 - 140*		*05/11/13 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*		*05/11/13 16:13*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00176	U	0.0203	0.00176	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Acenaphthylene	0.00122	U	0.0203	0.00122	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Anthracene	0.00156	U	0.0203	0.00156	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzidine	0.0110	U	0.102	0.0110	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzo[a]anthracene	0.00168	U	0.0203	0.00168	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzo[b]fluoranthene	0.00210	U	0.0203	0.00210	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzo[k]fluoranthene	0.00182	U	0.0203	0.00182	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzo[g,h,i]perylene	0.00618	U	0.0203	0.00618	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzo[a]pyrene	0.00196	U	0.0203	0.00196	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Bis(2-chloroethoxy)methane	0.00173	U	0.0203	0.00173	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Bis(2-chloroethyl)ether	0.00201	U	0.0203	0.00201	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Bis(2-ethylhexyl) phthalate	**0.216**		0.0813	0.00655	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Bromophenyl phenyl ether	0.00346	U	0.0203	0.00346	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Butyl benzyl phthalate	**0.0106**	**J**	0.0813	0.00755	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Chloroaniline	0.00710	U	0.0203	0.00710	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Chloronaphthalene	0.00148	U	0.0203	0.00148	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Chlorophenyl phenyl ether	0.00220	U	0.0203	0.00220	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Carbazole	0.00381	U	0.0203	0.00381	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Chrysene	0.00124	U	0.0203	0.00124	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Di-n-butyl phthalate	0.00316	U	0.0813	0.00316	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Dibenz(a,h)anthracene	0.00443	U	0.0203	0.00443	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Dibenzofuran	0.00217	U	0.0203	0.00217	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1

Client Sample ID: 2013-RMSB-10 (5-6)
Date Collected: 05/08/13 16:22
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-8
Matrix: Solid
Percent Solids: 81.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00368	U	0.0203	0.00368	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
1,3-Dichlorobenzene	0.00188	U	0.0203	0.00188	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
1,4-Dichlorobenzene	0.00274	U	0.0203	0.00274	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
3,3'-Dichlorobenzidine	0.0124	U	0.0203	0.0124	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Diethyl phthalate	**0.0459**	**J**	0.0813	0.0103	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Dimethyl phthalate	0.00597	U	0.0813	0.00597	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4-Dinitrotoluene	0.00440	U	0.0203	0.00440	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Di-n-octyl phthalate	0.00232	U	0.0813	0.00232	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Fluoranthene	0.00379	U	0.0203	0.00379	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Fluorene	0.00288	U	0.0203	0.00288	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Hexachlorobenzene	0.00185	U	0.0203	0.00185	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Hexachlorocyclopentadiene	0.00562	U	0.0203	0.00562	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Hexachloroethane	0.00282	U	0.0203	0.00282	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Hexachlorobutadiene	0.00234	U	0.0203	0.00234	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Indeno[1,2,3-cd]pyrene	0.00427	U	0.0203	0.00427	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Isophorone	0.00122	U	0.0203	0.00122	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Methylnaphthalene	**0.0100**	**J**	0.0203	0.00334	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Naphthalene	**0.0659**		0.0203	0.00165	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Nitroaniline	0.00597	U	0.0203	0.00597	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
3-Nitroaniline	0.00872	U	0.0203	0.00872	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Nitroaniline	0.0136	U	0.0203	0.0136	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Nitrobenzene	0.00361	U	0.0203	0.00361	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
N-Nitrosodimethylamine	0.00511	U	0.0203	0.00511	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
N-Nitrosodiphenylamine	0.00231	U	0.0203	0.00231	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
N-Nitrosodi-n-propylamine	0.00271	U	0.0203	0.00271	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Phenanthrene	0.00604	U	0.0203	0.00604	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Pyrene	0.00223	U	0.0203	0.00223	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
1,2,4-Trichlorobenzene	0.00256	U	0.0203	0.00256	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Benzyl alcohol	0.00711	U	0.0203	0.00711	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Chloro-3-methylphenol	0.0190	U	0.0203	0.0190	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Chlorophenol	0.00240	U	0.0203	0.00240	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Methylphenol	0.00394	U	0.0203	0.00394	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
3 & 4 Methylphenol	0.00340	U	0.0407	0.00340	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4-Dichlorophenol	0.00472	U	0.0203	0.00472	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4-Dimethylphenol	0.0105	U	0.0203	0.0105	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4,6-Dinitro-2-methylphenol	0.00608	U	0.0203	0.00608	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4-Dinitrophenol	0.00576	U	0.122	0.00576	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2-Nitrophenol	0.00475	U	0.0203	0.00475	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
4-Nitrophenol	0.00620	U	0.0203	0.00620	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Pentachlorophenol	0.00488	U	0.204	0.00488	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
Phenol	0.00517	U	0.0203	0.00517	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4,5-Trichlorophenol	0.0122	U	0.0203	0.0122	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,4,6-Trichlorophenol	0.00327	U	0.0203	0.00327	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
2,6-Dinitrotoluene	0.00360	U	0.0203	0.00360	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1
bis (2-Chloroisopropyl) ether	0.0108	U	0.0203	0.0108	mg/Kg	☼	05/12/13 14:09	05/13/13 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*124*	*X*	*56 - 123*	*05/12/13 14:09*	*05/13/13 14:41*	*1*
Nitrobenzene-d5	*107*		*34 - 118*	*05/12/13 14:09*	*05/13/13 14:41*	*1*
2-Fluorophenol	*104*		*41 - 122*	*05/12/13 14:09*	*05/13/13 14:41*	*1*

Client Sample ID: 2013-RMSB-10 (5-6)

Lab Sample ID: 600-72906-8

Date Collected: 05/08/13 16:22
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*51 - 120*	*05/12/13 14:09*	*05/13/13 14:41*	*1*
2,4,6-Tribromophenol	*74*		*34 - 122*	*05/12/13 14:09*	*05/13/13 14:41*	*1*
Phenol-d5 (Surr)	*98*		*43 - 125*	*05/12/13 14:09*	*05/13/13 14:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**911**		0.582	0.122	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Chromium	**15.8**		0.582	0.0589	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Cadmium	**35.8**		0.291	0.0298	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Barium	**87.8**	**b**	1.16	0.0349	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Arsenic	**9.18**		1.16	0.254	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Silver	0.138	U	0.582	0.138	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1
Selenium	**0.430**	**J**	2.33	0.301	mg/Kg	☼	05/10/13 17:37	05/13/13 23:06	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00409**	**J**	0.0555	0.00398	mg/Kg	☼	05/13/13 07:00	05/13/13 10:30	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**82**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-10 (7)

Lab Sample ID: 600-72906-9

Date Collected: 05/08/13 16:23
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 74.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.358**		0.0135	0.00223	mg/Kg	☼		05/11/13 10:43	1
Benzene	0.000847	U	0.00673	0.000847	mg/Kg	☼		05/11/13 10:43	1
Chlorobromomethane	0.00239	U	0.00673	0.00239	mg/Kg	☼		05/11/13 10:43	1
Bromoform	0.00184	U	0.00673	0.00184	mg/Kg	☼		05/11/13 10:43	1
Bromomethane	0.00112	U	0.0135	0.00112	mg/Kg	☼		05/11/13 10:43	1
2-Butanone (MEK)	**0.0535**		0.0135	0.00256	mg/Kg	☼		05/11/13 10:43	1
Carbon disulfide	**0.00399**	**J**	0.0135	0.000740	mg/Kg	☼		05/11/13 10:43	1
Carbon tetrachloride	0.00152	U	0.00673	0.00152	mg/Kg	☼		05/11/13 10:43	1
Dibromochloromethane	0.00126	U	0.00673	0.00126	mg/Kg	☼		05/11/13 10:43	1
Chlorobenzene	0.00129	U	0.00673	0.00129	mg/Kg	☼		05/11/13 10:43	1
Chloroethane	0.00188	U	0.0135	0.00188	mg/Kg	☼		05/11/13 10:43	1
Chloroform	0.000888	U	0.00673	0.000888	mg/Kg	☼		05/11/13 10:43	1
Chloromethane	0.00223	U	0.0135	0.00223	mg/Kg	☼		05/11/13 10:43	1
1,1-Dichloroethane	0.00117	U	0.00673	0.00117	mg/Kg	☼		05/11/13 10:43	1
1,2-Dichloroethane	0.00121	U	0.00673	0.00121	mg/Kg	☼		05/11/13 10:43	1
1,1-Dichloroethene	0.00164	U	0.00673	0.00164	mg/Kg	☼		05/11/13 10:43	1
cis-1,2-Dichloroethene	0.00112	U	0.00673	0.00112	mg/Kg	☼		05/11/13 10:43	1
trans-1,2-Dichloroethene	0.00153	U	0.00673	0.00153	mg/Kg	☼		05/11/13 10:43	1
1,2-Dichloropropane	0.000955	U	0.00673	0.000955	mg/Kg	☼		05/11/13 10:43	1
cis-1,3-Dichloropropene	0.000726	U	0.00673	0.000726	mg/Kg	☼		05/11/13 10:43	1
trans-1,3-Dichloropropene	0.000780	U	0.00673	0.000780	mg/Kg	☼		05/11/13 10:43	1

Client Sample ID: 2013-RMSB-10 (7)
Date Collected: 05/08/13 16:23
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-9
Matrix: Solid
Percent Solids: 74.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00137	U	0.00673	0.00137	mg/Kg	☼		05/11/13 10:43	1
2-Hexanone	0.00136	U	0.0135	0.00136	mg/Kg	☼		05/11/13 10:43	1
Methylene Chloride	0.00295	U	0.0135	0.00295	mg/Kg	☼		05/11/13 10:43	1
4-Methyl-2-pentanone (MIBK)	0.00198	U	0.0135	0.00198	mg/Kg	☼		05/11/13 10:43	1
Styrene	0.000955	U	0.00673	0.000955	mg/Kg	☼		05/11/13 10:43	1
1,1,2,2-Tetrachloroethane	0.00117	U	0.00673	0.00117	mg/Kg	☼		05/11/13 10:43	1
Tetrachloroethene	0.000955	U	0.00673	0.000955	mg/Kg	☼		05/11/13 10:43	1
Toluene	0.00186	U	0.00673	0.00186	mg/Kg	☼		05/11/13 10:43	1
1,1,1-Trichloroethane	0.000995	U	0.00673	0.000995	mg/Kg	☼		05/11/13 10:43	1
1,1,2-Trichloroethane	0.000982	U	0.00673	0.000982	mg/Kg	☼		05/11/13 10:43	1
Trichloroethene	0.00188	U	0.00673	0.00188	mg/Kg	☼		05/11/13 10:43	1
Vinyl acetate	0.00125	U	0.00673	0.00125	mg/Kg	☼		05/11/13 10:43	1
Vinyl chloride	0.00121	U	0.0135	0.00121	mg/Kg	☼		05/11/13 10:43	1
o-Xylene	0.00152	U	0.00673	0.00152	mg/Kg	☼		05/11/13 10:43	1
m-Xylene & p-Xylene	0.00204	U	0.0135	0.00204	mg/Kg	☼		05/11/13 10:43	1
Xylenes, Total	0.00152	U	0.00673	0.00152	mg/Kg	☼		05/11/13 10:43	1
Bromodichloromethane	0.000888	U	0.00673	0.000888	mg/Kg	☼		05/11/13 10:43	1
1,2-Dichloroethene, Total	0.00256	U	0.0135	0.00256	mg/Kg	☼		05/11/13 10:43	1
Methyl tert-butyl ether	0.00246	U	0.00673	0.00246	mg/Kg	☼		05/11/13 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*50 - 130*		*05/11/13 10:43*	*1*
Dibromofluoromethane	*94*		*68 - 140*		*05/11/13 10:43*	*1*
4-Bromofluorobenzene	*117*		*57 - 140*		*05/11/13 10:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*		*05/11/13 10:43*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00193	U	0.0224	0.00193	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Acenaphthylene	0.00134	U	0.0224	0.00134	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Anthracene	0.00172	U	0.0224	0.00172	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzidine	0.0121	U	0.112	0.0121	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzo[a]anthracene	0.00185	U	0.0224	0.00185	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzo[b]fluoranthene	0.00231	U	0.0224	0.00231	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzo[k]fluoranthene	0.00200	U	0.0224	0.00200	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzo[g,h,i]perylene	0.00681	U	0.0224	0.00681	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzo[a]pyrene	0.00216	U	0.0224	0.00216	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Bis(2-chloroethoxy)methane	0.00191	U	0.0224	0.00191	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Bis(2-chloroethyl)ether	0.00221	U	0.0224	0.00221	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Bis(2-ethylhexyl) phthalate	0.00721	U	0.0895	0.00721	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Bromophenyl phenyl ether	0.00381	U	0.0224	0.00381	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Butyl benzyl phthalate	0.00831	U	0.0895	0.00831	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Chloroaniline	0.00781	U	0.0224	0.00781	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Chloronaphthalene	0.00162	U	0.0224	0.00162	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Chlorophenyl phenyl ether	0.00242	U	0.0224	0.00242	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Carbazole	0.00419	U	0.0224	0.00419	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Chrysene	0.00137	U	0.0224	0.00137	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Di-n-butyl phthalate	0.00348	U	0.0895	0.00348	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Dibenz(a,h)anthracene	0.00487	U	0.0224	0.00487	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Dibenzofuran	0.00239	U	0.0224	0.00239	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1

Client Sample ID: 2013-RMSB-10 (7)
Date Collected: 05/08/13 16:23
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-9
Matrix: Solid
Percent Solids: 74.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00405	U	0.0224	0.00405	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
1,3-Dichlorobenzene	0.00207	U	0.0224	0.00207	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
1,4-Dichlorobenzene	0.00302	U	0.0224	0.00302	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
3,3'-Dichlorobenzidine	0.0136	U	0.0224	0.0136	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Diethyl phthalate	0.0113	U	0.0895	0.0113	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Dimethyl phthalate	0.00656	U	0.0895	0.00656	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4-Dinitrotoluene	0.00485	U	0.0224	0.00485	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Di-n-octyl phthalate	0.00255	U	0.0895	0.00255	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Fluoranthene	0.00417	U	0.0224	0.00417	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Fluorene	0.00317	U	0.0224	0.00317	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Hexachlorobenzene	0.00204	U	0.0224	0.00204	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Hexachlorocyclopentadiene	0.00619	U	0.0224	0.00619	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Hexachloroethane	0.00310	U	0.0224	0.00310	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Hexachlorobutadiene	0.00258	U	0.0224	0.00258	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Indeno[1,2,3-cd]pyrene	0.00470	U	0.0224	0.00470	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Isophorone	0.00134	U	0.0224	0.00134	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Methylnaphthalene	**0.165**		0.0224	0.00368	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Naphthalene	**0.167**		0.0224	0.00181	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Nitroaniline	0.00656	U	0.0224	0.00656	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
3-Nitroaniline	0.00960	U	0.0224	0.00960	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Nitroaniline	0.0150	U	0.0224	0.0150	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Nitrobenzene	0.00397	U	0.0224	0.00397	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
N-Nitrosodimethylamine	0.00562	U	0.0224	0.00562	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
N-Nitrosodiphenylamine	0.00254	U	0.0224	0.00254	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
N-Nitrosodi-n-propylamine	0.00298	U	0.0224	0.00298	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Phenanthrene	0.00664	U	0.0224	0.00664	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Pyrene	0.00246	U	0.0224	0.00246	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
1,2,4-Trichlorobenzene	0.00282	U	0.0224	0.00282	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Benzyl alcohol	0.00783	U	0.0224	0.00783	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Chloro-3-methylphenol	0.0209	U	0.0224	0.0209	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Chlorophenol	0.00264	U	0.0224	0.00264	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Methylphenol	0.00434	U	0.0224	0.00434	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
3 & 4 Methylphenol	0.00375	U	0.0447	0.00375	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4-Dichlorophenol	0.00520	U	0.0224	0.00520	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4-Dimethylphenol	0.0115	U	0.0224	0.0115	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4,6-Dinitro-2-methylphenol	0.00669	U	0.0224	0.00669	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4-Dinitrophenol	0.00634	U	0.134	0.00634	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2-Nitrophenol	0.00522	U	0.0224	0.00522	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
4-Nitrophenol	0.00682	U	0.0224	0.00682	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Pentachlorophenol	0.00537	U	0.224	0.00537	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
Phenol	0.00569	U	0.0224	0.00569	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4,5-Trichlorophenol	0.0134	U	0.0224	0.0134	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,4,6-Trichlorophenol	0.00360	U	0.0224	0.00360	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
2,6-Dinitrotoluene	0.00396	U	0.0224	0.00396	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1
bis (2-Chloroisopropyl) ether	0.0119	U	0.0224	0.0119	mg/Kg	☼	05/14/13 10:41	05/15/13 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*60*		*56 - 123*	*05/14/13 10:41*	*05/15/13 11:44*	*1*
Nitrobenzene-d5	*65*		*34 - 118*	*05/14/13 10:41*	*05/15/13 11:44*	*1*
2-Fluorophenol	*60*		*41 - 122*	*05/14/13 10:41*	*05/15/13 11:44*	*1*

Client Sample ID: 2013-RMSB-10 (7)

Lab Sample ID: 600-72906-9

Date Collected: 05/08/13 16:23
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 74.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*51 - 120*	*05/14/13 10:41*	*05/15/13 11:44*	*1*
2,4,6-Tribromophenol	*50*		*34 - 122*	*05/14/13 10:41*	*05/15/13 11:44*	*1*
Phenol-d5 (Surr)	*59*		*43 - 125*	*05/14/13 10:41*	*05/15/13 11:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19.2**		0.641	0.134	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Chromium	**21.6**		0.641	0.0648	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Cadmium	**0.506**		0.320	0.0328	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Barium	**122**	**b**	1.28	0.0384	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Arsenic	**12.1**		1.28	0.279	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Silver	0.152	U	0.641	0.152	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1
Selenium	**0.570**	**J**	2.56	0.332	mg/Kg	☼	05/10/13 17:37	05/13/13 23:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00445	U	0.0621	0.00445	mg/Kg	☼	05/13/13 07:00	05/13/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**74**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-7 (1.5-2)

Lab Sample ID: 600-72906-10

Date Collected: 05/08/13 16:56
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.372**		0.295	0.0303	mg/Kg	☼	05/10/13 17:37	05/13/13 23:11	1
Lead	**115**		0.590	0.124	mg/Kg	☼	05/10/13 17:37	05/13/13 23:11	1
Arsenic	**3.96**		1.18	0.257	mg/Kg	☼	05/10/13 17:37	05/13/13 23:11	1
Selenium	0.306	U	2.36	0.306	mg/Kg	☼	05/10/13 17:37	05/13/13 23:11	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**85**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-7 (2-4)

Lab Sample ID: 600-72906-11

Date Collected: 05/08/13 16:57
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 75.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.405**		0.303	0.0310	mg/Kg	☼	05/10/13 17:37	05/13/13 23:14	1
Lead	**25.9**		0.605	0.127	mg/Kg	☼	05/10/13 17:37	05/13/13 23:14	1
Arsenic	**11.1**		1.21	0.264	mg/Kg	☼	05/10/13 17:37	05/13/13 23:14	1
Selenium	**0.478**	**J**	2.42	0.313	mg/Kg	☼	05/10/13 17:37	05/13/13 23:14	1

Client Sample ID: 2013-RMSB-7 (2-4)
Lab Sample ID: 600-72906-11

Date Collected: 05/08/13 16:57
Matrix: Solid
Date Received: 05/10/13 08:34

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	76		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-7 (5-6)
Lab Sample ID: 600-72906-12

Date Collected: 05/08/13 16:58
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.379		0.283	0.0290	mg/Kg	☼	05/10/13 17:37	05/13/13 23:16	1
Lead	175		0.566	0.119	mg/Kg	☼	05/10/13 17:37	05/13/13 23:16	1
Arsenic	4.23		1.13	0.247	mg/Kg	☼	05/10/13 17:37	05/13/13 23:16	1
Selenium	0.293	U	2.26	0.293	mg/Kg	☼	05/10/13 17:37	05/13/13 23:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	85		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-7 (6.5)
Lab Sample ID: 600-72906-13

Date Collected: 05/08/13 16:55
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 76.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.475		0.321	0.0329	mg/Kg	☼	05/10/13 17:37	05/13/13 23:19	1
Lead	63.5		0.642	0.135	mg/Kg	☼	05/10/13 17:37	05/13/13 23:19	1
Arsenic	10.7		1.28	0.280	mg/Kg	☼	05/10/13 17:37	05/13/13 23:19	1
Selenium	0.411	J	2.57	0.333	mg/Kg	☼	05/10/13 17:37	05/13/13 23:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	76		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: 2013-RMSB-5 (2-5)
Lab Sample ID: 600-72906-14

Date Collected: 05/07/13 10:19
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 78.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.230		0.0127	0.00211	mg/Kg	☼		05/11/13 11:07	1
Benzene	0.000801	U	0.00635	0.000801	mg/Kg	☼		05/11/13 11:07	1
Chlorobromomethane	0.00226	U	0.00635	0.00226	mg/Kg	☼		05/11/13 11:07	1
Bromoform	0.00174	U	0.00635	0.00174	mg/Kg	☼		05/11/13 11:07	1
Bromomethane	0.00105	U	0.0127	0.00105	mg/Kg	☼		05/11/13 11:07	1
2-Butanone (MEK)	0.0280		0.0127	0.00241	mg/Kg	☼		05/11/13 11:07	1
Carbon disulfide	0.00418	J	0.0127	0.000699	mg/Kg	☼		05/11/13 11:07	1
Carbon tetrachloride	0.00144	U	0.00635	0.00144	mg/Kg	☼		05/11/13 11:07	1
Dibromochloromethane	0.00119	U	0.00635	0.00119	mg/Kg	☼		05/11/13 11:07	1
Chlorobenzene	0.00122	U	0.00635	0.00122	mg/Kg	☼		05/11/13 11:07	1

Client Sample ID: 2013-RMSB-5 (2-5)

Date Collected: 05/07/13 10:19
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-14

Matrix: Solid
Percent Solids: 78.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.00178	U	0.0127	0.00178	mg/Kg	☼		05/11/13 11:07	1
Chloroform	**0.00109**	**J b**	0.00635	0.000839	mg/Kg	☼		05/11/13 11:07	1
Chloromethane	0.00211	U	0.0127	0.00211	mg/Kg	☼		05/11/13 11:07	1
1,1-Dichloroethane	0.00111	U	0.00635	0.00111	mg/Kg	☼		05/11/13 11:07	1
1,2-Dichloroethane	0.00114	U	0.00635	0.00114	mg/Kg	☼		05/11/13 11:07	1
1,1-Dichloroethene	0.00155	U	0.00635	0.00155	mg/Kg	☼		05/11/13 11:07	1
cis-1,2-Dichloroethene	0.00105	U	0.00635	0.00105	mg/Kg	☼		05/11/13 11:07	1
trans-1,2-Dichloroethene	0.00145	U	0.00635	0.00145	mg/Kg	☼		05/11/13 11:07	1
1,2-Dichloropropane	0.000902	U	0.00635	0.000902	mg/Kg	☼		05/11/13 11:07	1
cis-1,3-Dichloropropene	0.000686	U	0.00635	0.000686	mg/Kg	☼		05/11/13 11:07	1
trans-1,3-Dichloropropene	0.000737	U	0.00635	0.000737	mg/Kg	☼		05/11/13 11:07	1
Ethylbenzene	0.00130	U	0.00635	0.00130	mg/Kg	☼		05/11/13 11:07	1
2-Hexanone	0.00128	U	0.0127	0.00128	mg/Kg	☼		05/11/13 11:07	1
Methylene Chloride	0.00278	U	0.0127	0.00278	mg/Kg	☼		05/11/13 11:07	1
4-Methyl-2-pentanone (MIBK)	**0.00202**	**J**	0.0127	0.00187	mg/Kg	☼		05/11/13 11:07	1
Styrene	0.000902	U	0.00635	0.000902	mg/Kg	☼		05/11/13 11:07	1
1,1,2,2-Tetrachloroethane	0.00111	U	0.00635	0.00111	mg/Kg	☼		05/11/13 11:07	1
Tetrachloroethene	0.000902	U	0.00635	0.000902	mg/Kg	☼		05/11/13 11:07	1
Toluene	0.00175	U	0.00635	0.00175	mg/Kg	☼		05/11/13 11:07	1
1,1,1-Trichloroethane	0.000940	U	0.00635	0.000940	mg/Kg	☼		05/11/13 11:07	1
1,1,2-Trichloroethane	0.000928	U	0.00635	0.000928	mg/Kg	☼		05/11/13 11:07	1
Trichloroethene	0.00178	U	0.00635	0.00178	mg/Kg	☼		05/11/13 11:07	1
Vinyl acetate	0.00118	U	0.00635	0.00118	mg/Kg	☼		05/11/13 11:07	1
Vinyl chloride	0.00114	U	0.0127	0.00114	mg/Kg	☼		05/11/13 11:07	1
o-Xylene	0.00144	U	0.00635	0.00144	mg/Kg	☼		05/11/13 11:07	1
m-Xylene & p-Xylene	0.00193	U	0.0127	0.00193	mg/Kg	☼		05/11/13 11:07	1
Xylenes, Total	0.00144	U	0.00635	0.00144	mg/Kg	☼		05/11/13 11:07	1
Bromodichloromethane	0.000839	U	0.00635	0.000839	mg/Kg	☼		05/11/13 11:07	1
1,2-Dichloroethene, Total	0.00241	U	0.0127	0.00241	mg/Kg	☼		05/11/13 11:07	1
Methyl tert-butyl ether	0.00233	U	0.00635	0.00233	mg/Kg	☼		05/11/13 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*50 - 130*		*05/11/13 11:07*	*1*
Dibromofluoromethane	*94*		*68 - 140*		*05/11/13 11:07*	*1*
4-Bromofluorobenzene	*118*		*57 - 140*		*05/11/13 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*		*05/11/13 11:07*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21**		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	**79**		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: MW-31 (0.9-2)

Date Collected: 05/09/13 10:17
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-15

Matrix: Solid
Percent Solids: 79.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**1.67**		0.296	0.0303	mg/Kg	☼	05/10/13 17:37	05/13/13 23:21	1

Client Sample ID: MW-31 (0.9-2)
Lab Sample ID: 600-72906-15

Date Collected: 05/09/13 10:17
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 79.7

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12900		5.92	1.24	mg/Kg	☼	05/10/13 17:37	05/14/13 15:16	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	80		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: MW-31 (5.8-8)
Lab Sample ID: 600-72906-16

Date Collected: 05/09/13 10:18
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 74.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.35		0.319	0.0327	mg/Kg	☼	05/10/13 17:37	05/13/13 23:23	1
Lead	1210		0.638	0.134	mg/Kg	☼	05/10/13 17:37	05/13/13 23:23	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	75		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: MW-31 (9.5)
Lab Sample ID: 600-72906-17

Date Collected: 05/09/13 10:19
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 76.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.245	J	0.306	0.0314	mg/Kg	☼	05/10/13 17:37	05/13/13 23:33	1
Lead	41.0		0.612	0.128	mg/Kg	☼	05/10/13 17:37	05/13/13 23:33	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	76		1.0	1.0	%			05/10/13 14:34	1

Client Sample ID: Dup 18
Lab Sample ID: 600-72906-18

Date Collected: 05/10/13 00:00
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 83.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0304	U	0.297	0.0304	mg/Kg	☼	05/10/13 17:37	05/13/13 23:35	1
Lead	68.0		0.594	0.124	mg/Kg	☼	05/10/13 17:37	05/13/13 23:35	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			05/10/13 14:34	1
Percent Solids	83		1.0	1.0	%			05/10/13 14:34	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
b	The compound was found in the blank and sample

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
X	Surrogate is outside control limits
N	MS, MSD: Spike recovery exceeds upper or lower control limits.

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
F	Duplicate RPD exceeds the control limit
b	The compound was found in the blank and sample

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(50-130)	(68-140)	(57-140)	(61-130)
600-72906-6	2013-RMSB-10 (1.3-2)	92	102	121	91
600-72906-7	2013-RMSB-10 (2-3)	88	95	119	80
600-72906-8	2013-RMSB-10 (5-6)	88	98	124	88
600-72906-9	2013-RMSB-10 (7)	87	94	117	82
600-72906-14	2013-RMSB-5 (2-5)	85	94	118	83
LCS 600-105880/3	Lab Control Sample	92	97	116	86
LCS 600-105934/3	Lab Control Sample	87	89	116	79
MB 600-105880/4	Method Blank	87	99	118	100
MB 600-105934/4	Method Blank	85	95	119	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TPH	NBZ	2FP	FBP	TBP	PHL
Lab Sample ID	Client Sample ID	(56-123)	(34-118)	(41-122)	(51-120)	(34-122)	(43-125)
600-72906-6	2013-RMSB-10 (1.3-2)	80	79	72	75	56	71
600-72906-7	2013-RMSB-10 (2-3)	112	106	102	104	71	96
600-72906-8	2013-RMSB-10 (5-6)	124 X	107	104	102	74	98
600-72906-9	2013-RMSB-10 (7)	60	65	60	58	50	59
600-72906-B-6-C MS	600-72906-B-6-C MS	0 X	0 X	0 X	0 X	0 X	0 X
600-72906-B-6-D MSD	600-72906-B-6-D MSD	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-105942/2-A	Lab Control Sample	102	95	95	96	77	92
LCS 600-106045/2-A	Lab Control Sample	91	83	77	81	64	79
MB 600-105942/1-A	Method Blank	97	96	91	94	46	86
MB 600-106045/1-A	Method Blank	80	77	71	73	41	68

Surrogate Legend

TPH = Terphenyl-d14
NBZ = Nitrobenzene-d5
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-105880/4
Matrix: Solid
Analysis Batch: 105880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/10/13 09:51	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/10/13 09:51	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/10/13 09:51	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/10/13 09:51	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/10/13 09:51	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/10/13 09:51	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/10/13 09:51	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/10/13 09:51	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/10/13 09:51	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/10/13 09:51	1
Chloroform	0.001031	J	0.00500	0.000660	mg/Kg			05/10/13 09:51	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/10/13 09:51	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/10/13 09:51	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/10/13 09:51	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/10/13 09:51	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/10/13 09:51	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/10/13 09:51	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/10/13 09:51	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/10/13 09:51	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/10/13 09:51	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/10/13 09:51	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			05/10/13 09:51	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/10/13 09:51	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/10/13 09:51	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/10/13 09:51	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/10/13 09:51	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/10/13 09:51	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/10/13 09:51	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/10/13 09:51	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			05/10/13 09:51	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/10/13 09:51	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			05/10/13 09:51	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/10/13 09:51	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/10/13 09:51	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/10/13 09:51	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/10/13 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*50 - 130*		*05/10/13 09:51*	*1*
Dibromofluoromethane	*99*		*68 - 140*		*05/10/13 09:51*	*1*
4-Bromofluorobenzene	*118*		*57 - 140*		*05/10/13 09:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*		*05/10/13 09:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-105880/3
Matrix: Solid
Analysis Batch: 105880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.1039		mg/Kg		104	44 - 136
Benzene	0.0500	0.04355		mg/Kg		87	66 - 128
Chlorobromomethane	0.0500	0.04367		mg/Kg		87	60 - 140
Bromoform	0.0500	0.03977		mg/Kg		80	50 - 130
Bromomethane	0.0500	0.04046		mg/Kg		81	28 - 164
2-Butanone (MEK)	0.100	0.07895		mg/Kg		79	42 - 186
Carbon disulfide	0.0500	0.03667		mg/Kg		73	53 - 176
Carbon tetrachloride	0.0500	0.04225		mg/Kg		85	63 - 132
Dibromochloromethane	0.0500	0.04153		mg/Kg		83	63 - 125
Chlorobenzene	0.0500	0.04842		mg/Kg		97	67 - 126
Chloroethane	0.0500	0.03881		mg/Kg		78	30 - 136
Chloroform	0.0500	0.04420		mg/Kg		88	67 - 126
Chloromethane	0.0500	0.03994		mg/Kg		80	21 - 153
1,1-Dichloroethane	0.0500	0.04537		mg/Kg		91	64 - 130
1,2-Dichloroethane	0.0500	0.04187		mg/Kg		84	61 - 135
1,1-Dichloroethene	0.0500	0.04156		mg/Kg		83	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04212		mg/Kg		84	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04065		mg/Kg		81	65 - 130
1,2-Dichloropropane	0.0500	0.04470		mg/Kg		89	71 - 122
cis-1,3-Dichloropropene	0.0500	0.03980		mg/Kg		80	66 - 129
trans-1,3-Dichloropropene	0.0500	0.04446		mg/Kg		89	66 - 134
Ethylbenzene	0.0500	0.04187		mg/Kg		84	64 - 127
2-Hexanone	0.100	0.07052		mg/Kg		71	52 - 142
Methylene Chloride	0.0500	0.04671		mg/Kg		93	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.07144		mg/Kg		71	52 - 146
Styrene	0.0500	0.04353		mg/Kg		87	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.04033		mg/Kg		81	59 - 134
Tetrachloroethene	0.0500	0.05002		mg/Kg		100	69 - 125
Toluene	0.0500	0.04352		mg/Kg		87	69 - 125
1,1,1-Trichloroethane	0.0500	0.04364		mg/Kg		87	70 - 127
1,1,2-Trichloroethane	0.0500	0.04466		mg/Kg		89	67 - 124
Trichloroethene	0.0500	0.04588		mg/Kg		92	70 - 136
Vinyl acetate	0.0500	0.03420		mg/Kg		68	54 - 136
Vinyl chloride	0.0500	0.03667		mg/Kg		73	28 - 159
o-Xylene	0.0500	0.04544		mg/Kg		91	64 - 132
m-Xylene & p-Xylene	0.100	0.08881		mg/Kg		89	65 - 128
Xylenes, Total	0.150	0.1343		mg/Kg		90	65 - 129
Bromodichloromethane	0.0500	0.04099		mg/Kg		82	68 - 121
1,2-Dichloroethene, Total	0.100	0.08277		mg/Kg		83	62 - 130
Methyl tert-butyl ether	0.0500	0.03870		mg/Kg		77	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*50 - 130*
Dibromofluoromethane	*97*		*68 - 140*
4-Bromofluorobenzene	*116*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-105934/4
Matrix: Solid
Analysis Batch: 105934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/11/13 10:19	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/11/13 10:19	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/11/13 10:19	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/11/13 10:19	1
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/11/13 10:19	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/11/13 10:19	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/11/13 10:19	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/11/13 10:19	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/11/13 10:19	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/11/13 10:19	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/11/13 10:19	1
Chloroform	0.001052	J	0.00500	0.000660	mg/Kg			05/11/13 10:19	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/11/13 10:19	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/11/13 10:19	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/11/13 10:19	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/11/13 10:19	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/11/13 10:19	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/11/13 10:19	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/11/13 10:19	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/11/13 10:19	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/11/13 10:19	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/11/13 10:19	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/11/13 10:19	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			05/11/13 10:19	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/11/13 10:19	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/11/13 10:19	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/11/13 10:19	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/11/13 10:19	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/11/13 10:19	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/11/13 10:19	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/11/13 10:19	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/11/13 10:19	1
Vinyl acetate	0.000930	U	0.00500	0.000930	mg/Kg			05/11/13 10:19	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/11/13 10:19	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/11/13 10:19	1
m-Xylene & p-Xylene	0.00152	U	0.0100	0.00152	mg/Kg			05/11/13 10:19	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/11/13 10:19	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/11/13 10:19	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/11/13 10:19	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/11/13 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*50 - 130*		*05/11/13 10:19*	*1*
Dibromofluoromethane	*95*		*68 - 140*		*05/11/13 10:19*	*1*
4-Bromofluorobenzene	*119*		*57 - 140*		*05/11/13 10:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 130*		*05/11/13 10:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-105934/3
Matrix: Solid
Analysis Batch: 105934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.100	0.09656		mg/Kg		97	44 - 136
Benzene	0.0500	0.04630		mg/Kg		93	66 - 128
Chlorobromomethane	0.0500	0.04529		mg/Kg		91	60 - 140
Bromoform	0.0500	0.03948		mg/Kg		79	50 - 130
Bromomethane	0.0500	0.04415		mg/Kg		88	28 - 164
2-Butanone (MEK)	0.100	0.07814		mg/Kg		78	42 - 186
Carbon disulfide	0.0500	0.03566		mg/Kg		71	53 - 176
Carbon tetrachloride	0.0500	0.04378		mg/Kg		88	63 - 132
Dibromochloromethane	0.0500	0.04086		mg/Kg		82	63 - 125
Chlorobenzene	0.0500	0.04899		mg/Kg		98	67 - 126
Chloroethane	0.0500	0.04153		mg/Kg		83	30 - 136
Chloroform	0.0500	0.04606		mg/Kg		92	67 - 126
Chloromethane	0.0500	0.04277		mg/Kg		86	21 - 153
1,1-Dichloroethane	0.0500	0.04575		mg/Kg		92	64 - 130
1,2-Dichloroethane	0.0500	0.04378		mg/Kg		88	61 - 135
1,1-Dichloroethene	0.0500	0.04215		mg/Kg		84	40 - 157
cis-1,2-Dichloroethene	0.0500	0.04351		mg/Kg		87	62 - 130
trans-1,2-Dichloroethene	0.0500	0.04316		mg/Kg		86	65 - 130
1,2-Dichloropropane	0.0500	0.04559		mg/Kg		91	71 - 122
cis-1,3-Dichloropropene	0.0500	0.04013		mg/Kg		80	66 - 129
trans-1,3-Dichloropropene	0.0500	0.04555		mg/Kg		91	66 - 134
Ethylbenzene	0.0500	0.04291		mg/Kg		86	64 - 127
2-Hexanone	0.100	0.07009		mg/Kg		70	52 - 142
Methylene Chloride	0.0500	0.04292		mg/Kg		86	48 - 144
4-Methyl-2-pentanone (MIBK)	0.100	0.06926		mg/Kg		69	52 - 146
Styrene	0.0500	0.04581		mg/Kg		92	63 - 128
1,1,2,2-Tetrachloroethane	0.0500	0.03899		mg/Kg		78	59 - 134
Tetrachloroethene	0.0500	0.05248		mg/Kg		105	69 - 125
Toluene	0.0500	0.04476		mg/Kg		90	69 - 125
1,1,1-Trichloroethane	0.0500	0.04660		mg/Kg		93	70 - 127
1,1,2-Trichloroethane	0.0500	0.04498		mg/Kg		90	67 - 124
Trichloroethene	0.0500	0.04841		mg/Kg		97	70 - 136
Vinyl acetate	0.0500	0.03089		mg/Kg		62	54 - 136
Vinyl chloride	0.0500	0.03782		mg/Kg		76	28 - 159
o-Xylene	0.0500	0.04776		mg/Kg		96	64 - 132
m-Xylene & p-Xylene	0.100	0.09306		mg/Kg		93	65 - 128
Xylenes, Total	0.150	0.1408		mg/Kg		94	65 - 129
Bromodichloromethane	0.0500	0.04137		mg/Kg		83	68 - 121
1,2-Dichloroethene, Total	0.100	0.08667		mg/Kg		87	62 - 130
Methyl tert-butyl ether	0.0500	0.03710		mg/Kg		74	49 - 152

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*50 - 130*
Dibromofluoromethane	*89*		*68 - 140*
4-Bromofluorobenzene	*116*		*57 - 140*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-105942/1-A
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105942

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00144	U	0.0167	0.00144	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Acenaphthylene	0.00100	U	0.0167	0.00100	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Anthracene	0.00128	U	0.0167	0.00128	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzidine	0.00902	U	0.0833	0.00902	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzo[a]anthracene	0.00138	U	0.0167	0.00138	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzo[b]fluoranthene	0.00172	U	0.0167	0.00172	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzo[k]fluoranthene	0.00149	U	0.0167	0.00149	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzo[g,h,i]perylene	0.00507	U	0.0167	0.00507	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzo[a]pyrene	0.00161	U	0.0167	0.00161	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Bis(2-chloroethoxy)methane	0.00142	U	0.0167	0.00142	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Bis(2-chloroethyl)ether	0.00165	U	0.0167	0.00165	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Bis(2-ethylhexyl) phthalate	0.00537	U	0.0667	0.00537	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Bromophenyl phenyl ether	0.00284	U	0.0167	0.00284	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Butyl benzyl phthalate	0.00619	U	0.0667	0.00619	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Chloroaniline	0.00582	U	0.0167	0.00582	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Chloronaphthalene	0.00121	U	0.0167	0.00121	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Chlorophenyl phenyl ether	0.00180	U	0.0167	0.00180	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Carbazole	0.00312	U	0.0167	0.00312	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Chrysene	0.00102	U	0.0167	0.00102	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Di-n-butyl phthalate	0.00259	U	0.0667	0.00259	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Dibenz(a,h)anthracene	0.00363	U	0.0167	0.00363	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Dibenzofuran	0.00178	U	0.0167	0.00178	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
1,2-Dichlorobenzene	0.00302	U	0.0167	0.00302	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
1,3-Dichlorobenzene	0.00154	U	0.0167	0.00154	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
1,4-Dichlorobenzene	0.00225	U	0.0167	0.00225	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
3,3'-Dichlorobenzidine	0.0102	U	0.0167	0.0102	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Diethyl phthalate	0.00843	U	0.0667	0.00843	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Dimethyl phthalate	0.00489	U	0.0667	0.00489	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4-Dinitrotoluene	0.00361	U	0.0167	0.00361	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Di-n-octyl phthalate	0.00190	U	0.0667	0.00190	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Fluoranthene	0.00311	U	0.0167	0.00311	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Fluorene	0.00236	U	0.0167	0.00236	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Hexachlorobenzene	0.00152	U	0.0167	0.00152	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Hexachlorocyclopentadiene	0.00461	U	0.0167	0.00461	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Hexachloroethane	0.00231	U	0.0167	0.00231	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Hexachlorobutadiene	0.00192	U	0.0167	0.00192	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0167	0.00350	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Isophorone	0.00100	U	0.0167	0.00100	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Methylnaphthalene	0.00274	U	0.0167	0.00274	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Naphthalene	0.00135	U	0.0167	0.00135	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Nitroaniline	0.00489	U	0.0167	0.00489	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
3-Nitroaniline	0.00715	U	0.0167	0.00715	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Nitroaniline	0.0112	U	0.0167	0.0112	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Nitrobenzene	0.00296	U	0.0167	0.00296	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
N-Nitrosodimethylamine	0.00419	U	0.0167	0.00419	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
N-Nitrosodiphenylamine	0.00189	U	0.0167	0.00189	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
N-Nitrosodi-n-propylamine	0.00222	U	0.0167	0.00222	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Phenanthrene	0.00495	U	0.0167	0.00495	mg/Kg		05/12/13 14:09	05/13/13 12:03	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-105942/1-A
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105942

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.00183	U	0.0167	0.00183	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
1,2,4-Trichlorobenzene	0.00210	U	0.0167	0.00210	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Benzyl alcohol	0.00583	U	0.0167	0.00583	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Chloro-3-methylphenol	0.0156	U	0.0167	0.0156	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Chlorophenol	0.00197	U	0.0167	0.00197	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Methylphenol	0.00323	U	0.0167	0.00323	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
3 & 4 Methylphenol	0.00279	U	0.0333	0.00279	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4-Dichlorophenol	0.00387	U	0.0167	0.00387	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4-Dimethylphenol	0.00858	U	0.0167	0.00858	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4,6-Dinitro-2-methylphenol	0.00498	U	0.0167	0.00498	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4-Dinitrophenol	0.00472	U	0.100	0.00472	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2-Nitrophenol	0.00389	U	0.0167	0.00389	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
4-Nitrophenol	0.00508	U	0.0167	0.00508	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
Phenol	0.00424	U	0.0167	0.00424	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4,5-Trichlorophenol	0.0100	U	0.0167	0.0100	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,4,6-Trichlorophenol	0.00268	U	0.0167	0.00268	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
2,6-Dinitrotoluene	0.00295	U	0.0167	0.00295	mg/Kg		05/12/13 14:09	05/13/13 12:03	1
bis (2-Chloroisopropyl) ether	0.00884	U	0.0167	0.00884	mg/Kg		05/12/13 14:09	05/13/13 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*56 - 123*	*05/12/13 14:09*	*05/13/13 12:03*	*1*
Nitrobenzene-d5	*96*		*34 - 118*	*05/12/13 14:09*	*05/13/13 12:03*	*1*
2-Fluorophenol	*91*		*41 - 122*	*05/12/13 14:09*	*05/13/13 12:03*	*1*
2-Fluorobiphenyl	*94*		*51 - 120*	*05/12/13 14:09*	*05/13/13 12:03*	*1*
2,4,6-Tribromophenol	*46*		*34 - 122*	*05/12/13 14:09*	*05/13/13 12:03*	*1*
Phenol-d5 (Surr)	*86*		*43 - 125*	*05/12/13 14:09*	*05/13/13 12:03*	*1*

Lab Sample ID: LCS 600-105942/2-A
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.3025		mg/Kg		91	58 - 125
Acenaphthylene	0.333	0.3073		mg/Kg		92	51 - 122
Anthracene	0.333	0.3124		mg/Kg		94	52 - 120
Benzidine	3.33	2.076		mg/Kg		62	10 - 135
Benzo[a]anthracene	0.333	0.3219		mg/Kg		97	49 - 124
Benzo[b]fluoranthene	0.333	0.3056		mg/Kg		92	58 - 130
Benzo[k]fluoranthene	0.333	0.2983		mg/Kg		90	56 - 129
Benzo[g,h,i]perylene	0.333	0.4194		mg/Kg		126	50 - 140
Benzo[a]pyrene	0.333	0.3001		mg/Kg		90	58 - 123
Bis(2-chloroethoxy)methane	0.333	0.2778		mg/Kg		83	54 - 114
Bis(2-chloroethyl)ether	0.333	0.2850		mg/Kg		86	44 - 119
Bis(2-ethylhexyl) phthalate	0.333	0.3085		mg/Kg		93	55 - 136
4-Bromophenyl phenyl ether	0.333	0.3412		mg/Kg		102	56 - 126
Butyl benzyl phthalate	0.333	0.3100		mg/Kg		93	43 - 135
4-Chloroaniline	0.333	0.2567		mg/Kg		77	42 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105942/2-A
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	0.333	0.3119		mg/Kg		94	50 - 123
4-Chlorophenyl phenyl ether	0.333	0.2715		mg/Kg		81	57 - 126
Carbazole	0.333	0.3491		mg/Kg		105	47 - 153
Chrysene	0.333	0.3247		mg/Kg		97	50 - 123
Di-n-butyl phthalate	0.333	0.3052		mg/Kg		92	61 - 124
Dibenz(a,h)anthracene	0.333	0.3614		mg/Kg		108	55 - 141
Dibenzofuran	0.333	0.2853		mg/Kg		86	54 - 119
1,2-Dichlorobenzene	0.333	0.3024		mg/Kg		91	57 - 117
1,3-Dichlorobenzene	0.333	0.3220		mg/Kg		97	50 - 128
1,4-Dichlorobenzene	0.333	0.3127		mg/Kg		94	59 - 117
3,3'-Dichlorobenzidine	0.333	0.3211		mg/Kg		96	18 - 172
Diethyl phthalate	0.333	0.2830		mg/Kg		85	55 - 126
Dimethyl phthalate	0.333	0.2867		mg/Kg		86	58 - 126
2,4-Dinitrotoluene	0.333	0.2588		mg/Kg		78	53 - 123
Di-n-octyl phthalate	0.333	0.2862		mg/Kg		86	45 - 135
Fluoranthene	0.333	0.3018		mg/Kg		91	56 - 123
Fluorene	0.333	0.2879		mg/Kg		86	52 - 147
Hexachlorobenzene	0.333	0.3251		mg/Kg		98	59 - 122
Hexachlorocyclopentadiene	0.333	0.3057		mg/Kg		92	33 - 119
Hexachloroethane	0.333	0.3188		mg/Kg		96	36 - 116
Hexachlorobutadiene	0.333	0.2732		mg/Kg		82	49 - 123
Indeno[1,2,3-cd]pyrene	0.333	0.3846		mg/Kg		115	40 - 147
Isophorone	0.333	0.2885		mg/Kg		87	49 - 115
2-Methylnaphthalene	0.333	0.2730		mg/Kg		82	54 - 130
Naphthalene	0.333	0.2946		mg/Kg		88	52 - 117
2-Nitroaniline	0.333	0.3628		mg/Kg		109	49 - 149
3-Nitroaniline	0.333	0.3742		mg/Kg		112	45 - 133
4-Nitroaniline	0.333	0.3205		mg/Kg		96	48 - 138
Nitrobenzene	0.333	0.3162		mg/Kg		95	53 - 123
N-Nitrosodimethylamine	0.333	0.3848		mg/Kg		115	41 - 138
N-Nitrosodiphenylamine	0.333	0.3936		mg/Kg		118	47 - 127
N-Nitrosodi-n-propylamine	0.333	0.3343		mg/Kg		100	43 - 140
Phenanthrene	0.333	0.3202		mg/Kg		96	55 - 120
Pyrene	0.333	0.3710		mg/Kg		111	48 - 131
1,2,4-Trichlorobenzene	0.333	0.2852		mg/Kg		86	54 - 115
Benzyl alcohol	0.333	0.2881		mg/Kg		86	25 - 141
4-Chloro-3-methylphenol	0.333	0.2507		mg/Kg		75	54 - 119
2-Chlorophenol	0.333	0.3077		mg/Kg		92	54 - 119
2-Methylphenol	0.333	0.2846		mg/Kg		85	45 - 118
3 & 4 Methylphenol	0.333	0.2735		mg/Kg		82	44 - 126
2,4-Dichlorophenol	0.333	0.2817		mg/Kg		85	54 - 119
2,4-Dimethylphenol	0.333	0.2922		mg/Kg		88	36 - 124
4,6-Dinitro-2-methylphenol	0.333	0.1206		mg/Kg		36	34 - 124
2,4-Dinitrophenol	0.333	0.2852		mg/Kg		86	25 - 117
2-Nitrophenol	0.333	0.2913		mg/Kg		87	50 - 112
4-Nitrophenol	0.333	0.3403		mg/Kg		102	20 - 132
Pentachlorophenol	0.333	0.2577		mg/Kg		77	17 - 124
Phenol	0.333	0.3104		mg/Kg		93	33 - 122

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-105942/2-A
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.333	0.3194		mg/Kg		96	59 - 136
2,4,6-Trichlorophenol	0.333	0.2955		mg/Kg		89	59 - 134
2,6-Dinitrotoluene	0.333	0.2743		mg/Kg		82	53 - 116
bis (2-Chloroisopropyl) ether	0.333	0.3815		mg/Kg		114	51 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*102*		*56 - 123*
Nitrobenzene-d5	*95*		*34 - 118*
2-Fluorophenol	*95*		*41 - 122*
2-Fluorobiphenyl	*96*		*51 - 120*
2,4,6-Tribromophenol	*77*		*34 - 122*
Phenol-d5 (Surr)	*92*		*43 - 125*

Lab Sample ID: 600-72906-B-6-C MS
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: 600-72906-B-6-C MS
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.00176		0.407	0.3454		mg/Kg	☼	85	25 - 134
Acenaphthylene	0.00122		0.407	0.3511		mg/Kg	☼	86	32 - 137
Anthracene	0.00156		0.407	0.3616		mg/Kg	☼	89	35 - 115
Benzidine	0.0110		4.07	2.293		mg/Kg	☼	56	0 - 150
Benzo[a]anthracene	0.00169		0.407	0.3759		mg/Kg	☼	92	38 - 128
Benzo[b]fluoranthene	0.00210		0.407	0.3561		mg/Kg	☼	87	40 - 131
Benzo[k]fluoranthene	0.00182		0.407	0.3611		mg/Kg	☼	89	33 - 137
Benzo[g,h,i]perylene	0.00619		0.407	0.4826	N	mg/Kg	☼	118	34 - 110
Benzo[a]pyrene	0.00197		0.407	0.3380		mg/Kg	☼	83	30 - 130
Bis(2-chloroethoxy)methane	0.00173		0.407	0.3118		mg/Kg	☼	77	33 - 119
Bis(2-chloroethyl)ether	0.00202		0.407	0.3108		mg/Kg	☼	76	28 - 120
Bis(2-ethylhexyl) phthalate	0.0832		0.407	0.3732		mg/Kg	☼	71	44 - 139
4-Bromophenyl phenyl ether	0.00347		0.407	0.4071		mg/Kg	☼	100	41 - 123
Butyl benzyl phthalate	0.00974		0.407	0.3893		mg/Kg	☼	93	41 - 139
4-Chloroaniline	0.00711		0.407	0.2909		mg/Kg	☼	71	15 - 112
2-Chloronaphthalene	0.00148		0.407	0.3562		mg/Kg	☼	87	34 - 126
4-Chlorophenyl phenyl ether	0.00220		0.407	0.3187		mg/Kg	☼	78	32 - 132
Carbazole	0.00381		0.407	0.4095		mg/Kg	☼	101	7 - 163
Chrysene	0.00125		0.407	0.3701		mg/Kg	☼	91	36 - 130
Di-n-butyl phthalate	0.00316		0.407	0.3600		mg/Kg	☼	88	41 - 126
Dibenz(a,h)anthracene	0.00443		0.407	0.4298		mg/Kg	☼	106	19 - 125
Dibenzofuran	0.00217		0.407	0.3367		mg/Kg	☼	83	35 - 125
1,2-Dichlorobenzene	0.00369		0.407	0.3311		mg/Kg	☼	81	30 - 130
1,3-Dichlorobenzene	0.00188		0.407	0.3502		mg/Kg	☼	86	30 - 130
1,4-Dichlorobenzene	0.00275		0.407	0.3479		mg/Kg	☼	85	30 - 130
3,3'-Dichlorobenzidine	0.0124		0.407	0.3989		mg/Kg	☼	98	14 - 132
Diethyl phthalate	0.0394		0.407	0.3782		mg/Kg	☼	83	41 - 129
Dimethyl phthalate	0.00597		0.407	0.3353		mg/Kg	☼	82	40 - 130
2,4-Dinitrotoluene	0.00441		0.407	0.3153		mg/Kg	☼	77	10 - 129
Di-n-octyl phthalate	0.00232		0.407	0.3427		mg/Kg	☼	84	36 - 152

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72906-B-6-C MS
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: 600-72906-B-6-C MS
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.00380		0.407	0.3443		mg/Kg	☼	85	37 - 132
Fluorene	0.00288		0.407	0.3305		mg/Kg	☼	81	36 - 122
Hexachlorobenzene	0.00186		0.407	0.3922		mg/Kg	☼	96	40 - 123
Hexachlorocyclopentadiene	0.00563		0.407	0.3470		mg/Kg	☼	85	10 - 118
Hexachloroethane	0.00282		0.407	0.3392		mg/Kg	☼	83	31 - 113
Hexachlorobutadiene	0.00235		0.407	0.3202		mg/Kg	☼	79	32 - 124
Indeno[1,2,3-cd]pyrene	0.00428		0.407	0.4600	N	mg/Kg	☼	113	30 - 112
Isophorone	0.00122		0.407	0.3309		mg/Kg	☼	81	33 - 125
2-Methylnaphthalene	0.00335		0.407	0.3096		mg/Kg	☼	76	32 - 136
Naphthalene	0.00165		0.407	0.3408		mg/Kg	☼	84	30 - 112
2-Nitroaniline	0.00597		0.407	0.4193		mg/Kg	☼	103	38 - 130
3-Nitroaniline	0.00874		0.407	0.4305		mg/Kg	☼	106	22 - 124
4-Nitroaniline	0.0136		0.407	0.3845		mg/Kg	☼	94	21 - 122
Nitrobenzene	0.00362		0.407	0.3505		mg/Kg	☼	86	29 - 118
N-Nitrosodimethylamine	0.00512		0.407	0.4211		mg/Kg	☼	103	30 - 130
N-Nitrosodiphenylamine	0.00231		0.407	0.4492	N	mg/Kg	☼	110	28 - 106
N-Nitrosodi-n-propylamine	0.00271		0.407	0.3724		mg/Kg	☼	91	34 - 115
Phenanthrene	0.00605		0.407	0.3740		mg/Kg	☼	92	26 - 126
Pyrene	0.00224		0.407	0.4299		mg/Kg	☼	106	28 - 138
1,2,4-Trichlorobenzene	0.00257		0.407	0.3191		mg/Kg	☼	78	38 - 107
Benzyl alcohol	0.00712		0.407	0.3097		mg/Kg	☼	76	27 - 128
4-Chloro-3-methylphenol	0.0190		0.407	0.3008		mg/Kg	☼	74	26 - 132
2-Chlorophenol	0.00241		0.407	0.3414		mg/Kg	☼	84	21 - 130
2-Methylphenol	0.00395		0.407	0.3074		mg/Kg	☼	75	26 - 125
3 & 4 Methylphenol	0.00341		0.407	0.3156		mg/Kg	☼	77	30 - 130
2,4-Dichlorophenol	0.00473		0.407	0.3166		mg/Kg	☼	78	35 - 121
2,4-Dimethylphenol	0.0105		0.407	0.3335		mg/Kg	☼	82	29 - 122
4,6-Dinitro-2-methylphenol	0.00608		0.407	0.1583		mg/Kg	☼	39	10 - 104
2,4-Dinitrophenol	0.00577		0.407	0.3646		mg/Kg	☼	89	10 - 121
2-Nitrophenol	0.00475		0.407	0.3331		mg/Kg	☼	82	30 - 130
4-Nitrophenol	0.00621		0.407	0.3692		mg/Kg	☼	91	25 - 122
Pentachlorophenol	0.00489		0.407	0.2979		mg/Kg	☼	73	25 - 124
Phenol	0.00518		0.407	0.3414		mg/Kg	☼	84	31 - 121
2,4,5-Trichlorophenol	0.0122		0.407	0.3729		mg/Kg	☼	92	30 - 130
2,4,6-Trichlorophenol	0.00327		0.407	0.3419		mg/Kg	☼	84	30 - 130
2,6-Dinitrotoluene	0.00360		0.407	0.3118		mg/Kg	☼	77	30 - 124
bis (2-Chloroisopropyl) ether	0.0108		0.407	0.4217		mg/Kg	☼	104	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*0*	*X*	*56 - 123*
Nitrobenzene-d5	*0*	*X*	*34 - 118*
2-Fluorophenol	*0*	*X*	*41 - 122*
2-Fluorobiphenyl	*0*	*X*	*51 - 120*
2,4,6-Tribromophenol	*0*	*X*	*34 - 122*
Phenol-d5 (Surr)	*0*	*X*	*43 - 125*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72906-B-6-D MSD
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: 600-72906-B-6-D MSD
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.00176		0.408	0.3809		mg/Kg	☼	93	25 - 134	10	30
Acenaphthylene	0.00122		0.408	0.3916		mg/Kg	☼	96	32 - 137	11	30
Anthracene	0.00156		0.408	0.3682		mg/Kg	☼	90	35 - 115	2	30
Benzidine	0.0110		4.08	2.458		mg/Kg	☼	60	0 - 150	7	40
Benzo[a]anthracene	0.00169		0.408	0.3841		mg/Kg	☼	94	38 - 128	2	30
Benzo[b]fluoranthene	0.00210		0.408	0.3587		mg/Kg	☼	88	40 - 131	1	30
Benzo[k]fluoranthene	0.00182		0.408	0.3652		mg/Kg	☼	90	33 - 137	1	30
Benzo[g,h,i]perylene	0.00619		0.408	0.5163	N	mg/Kg	☼	127	34 - 110	7	30
Benzo[a]pyrene	0.00197		0.408	0.3530		mg/Kg	☼	87	30 - 130	4	30
Bis(2-chloroethoxy)methane	0.00173		0.408	0.3426		mg/Kg	☼	84	33 - 119	9	30
Bis(2-chloroethyl)ether	0.00202		0.408	0.3446		mg/Kg	☼	84	28 - 120	10	30
Bis(2-ethylhexyl) phthalate	0.0832		0.408	0.3793		mg/Kg	☼	73	44 - 139	2	30
4-Bromophenyl phenyl ether	0.00347		0.408	0.4058		mg/Kg	☼	99	41 - 123	0	30
Butyl benzyl phthalate	0.00974		0.408	0.3861		mg/Kg	☼	92	41 - 139	1	30
4-Chloroaniline	0.00711		0.408	0.3295		mg/Kg	☼	81	15 - 112	12	30
2-Chloronaphthalene	0.00148		0.408	0.3923		mg/Kg	☼	96	34 - 126	10	30
4-Chlorophenyl phenyl ether	0.00220		0.408	0.3396		mg/Kg	☼	83	32 - 132	6	30
Carbazole	0.00381		0.408	0.4219		mg/Kg	☼	103	7 - 163	3	30
Chrysene	0.00125		0.408	0.3819		mg/Kg	☼	94	36 - 130	3	30
Di-n-butyl phthalate	0.00316		0.408	0.3641		mg/Kg	☼	89	41 - 126	1	30
Dibenz(a,h)anthracene	0.00443		0.408	0.4475		mg/Kg	☼	110	19 - 125	4	30
Dibenzofuran	0.00217		0.408	0.3682		mg/Kg	☼	90	35 - 125	9	30
1,2-Dichlorobenzene	0.00369		0.408	0.3713		mg/Kg	☼	91	30 - 130	11	30
1,3-Dichlorobenzene	0.00188		0.408	0.3853		mg/Kg	☼	94	30 - 130	10	30
1,4-Dichlorobenzene	0.00275		0.408	0.3842		mg/Kg	☼	94	30 - 130	10	30
3,3'-Dichlorobenzidine	0.0124		0.408	0.3970		mg/Kg	☼	97	14 - 132	0	30
Diethyl phthalate	0.0394		0.408	0.3875		mg/Kg	☼	85	41 - 129	2	30
Dimethyl phthalate	0.00597		0.408	0.3652		mg/Kg	☼	90	40 - 130	9	30
2,4-Dinitrotoluene	0.00441		0.408	0.3319		mg/Kg	☼	81	10 - 129	5	30
Di-n-octyl phthalate	0.00232		0.408	0.3515		mg/Kg	☼	86	36 - 152	3	30
Fluoranthene	0.00380		0.408	0.3609		mg/Kg	☼	88	37 - 132	5	30
Fluorene	0.00288		0.408	0.3607		mg/Kg	☼	88	36 - 122	9	30
Hexachlorobenzene	0.00186		0.408	0.3950		mg/Kg	☼	97	40 - 123	1	30
Hexachlorocyclopentadiene	0.00563		0.408	0.3660		mg/Kg	☼	90	10 - 118	5	30
Hexachloroethane	0.00282		0.408	0.3732		mg/Kg	☼	91	31 - 113	10	30
Hexachlorobutadiene	0.00235		0.408	0.3557		mg/Kg	☼	87	32 - 124	10	30
Indeno[1,2,3-cd]pyrene	0.00428		0.408	0.4749	N	mg/Kg	☼	116	30 - 112	3	30
Isophorone	0.00122		0.408	0.3618		mg/Kg	☼	89	33 - 125	9	30
2-Methylnaphthalene	0.00335		0.408	0.3451		mg/Kg	☼	85	32 - 136	11	30
Naphthalene	0.00165		0.408	0.3767		mg/Kg	☼	92	30 - 112	10	30
2-Nitroaniline	0.00597		0.408	0.4712		mg/Kg	☼	115	38 - 130	12	30
3-Nitroaniline	0.00874		0.408	0.4670		mg/Kg	☼	114	22 - 124	8	30
4-Nitroaniline	0.0136		0.408	0.4003		mg/Kg	☼	98	21 - 122	4	30
Nitrobenzene	0.00362		0.408	0.3843		mg/Kg	☼	94	29 - 118	9	30
N-Nitrosodimethylamine	0.00512		0.408	0.4670		mg/Kg	☼	114	30 - 130	10	30
N-Nitrosodiphenylamine	0.00231		0.408	0.4663	N	mg/Kg	☼	114	28 - 106	4	30
N-Nitrosodi-n-propylamine	0.00271		0.408	0.4120		mg/Kg	☼	101	34 - 115	10	30
Phenanthrene	0.00605		0.408	0.3787		mg/Kg	☼	93	26 - 126	1	30

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-72906-B-6-D MSD
Matrix: Solid
Analysis Batch: 106070

Client Sample ID: 600-72906-B-6-D MSD
Prep Type: Total/NA
Prep Batch: 105942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	0.00224		0.408	0.4293		mg/Kg	☼	105	28 - 138	0	30
1,2,4-Trichlorobenzene	0.00257		0.408	0.3515		mg/Kg	☼	86	38 - 107	10	30
Benzyl alcohol	0.00712		0.408	0.3610		mg/Kg	☼	88	27 - 128	15	30
4-Chloro-3-methylphenol	0.0190		0.408	0.3231		mg/Kg	☼	79	26 - 132	7	30
2-Chlorophenol	0.00241		0.408	0.3824		mg/Kg	☼	94	21 - 130	11	30
2-Methylphenol	0.00395		0.408	0.3607		mg/Kg	☼	88	26 - 125	16	30
3 & 4 Methylphenol	0.00341		0.408	0.3359		mg/Kg	☼	82	30 - 130	6	30
2,4-Dichlorophenol	0.00473		0.408	0.3512		mg/Kg	☼	86	35 - 121	10	30
2,4-Dimethylphenol	0.0105		0.408	0.3774		mg/Kg	☼	92	29 - 122	12	30
4,6-Dinitro-2-methylphenol	0.00608		0.408	0.1686		mg/Kg	☼	41	10 - 104	6	30
2,4-Dinitrophenol	0.00577		0.408	0.3884		mg/Kg	☼	95	10 - 121	6	30
2-Nitrophenol	0.00475		0.408	0.3672		mg/Kg	☼	90	30 - 130	10	30
4-Nitrophenol	0.00621		0.408	0.3667		mg/Kg	☼	90	25 - 122	1	30
Pentachlorophenol	0.00489		0.408	0.3199		mg/Kg	☼	78	25 - 124	7	30
Phenol	0.00518		0.408	0.3829		mg/Kg	☼	94	31 - 121	11	30
2,4,5-Trichlorophenol	0.0122		0.408	0.3880		mg/Kg	☼	95	30 - 130	4	30
2,4,6-Trichlorophenol	0.00327		0.408	0.3935		mg/Kg	☼	96	30 - 130	14	30
2,6-Dinitrotoluene	0.00360		0.408	0.3613		mg/Kg	☼	89	30 - 124	15	30
bis (2-Chloroisopropyl) ether	0.0108		0.408	0.4685		mg/Kg	☼	115	50 - 130	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*0*	*X*	*56 - 123*
Nitrobenzene-d5	*0*	*X*	*34 - 118*
2-Fluorophenol	*0*	*X*	*41 - 122*
2-Fluorobiphenyl	*0*	*X*	*51 - 120*
2,4,6-Tribromophenol	*0*	*X*	*34 - 122*
Phenol-d5 (Surr)	*0*	*X*	*43 - 125*

Lab Sample ID: MB 600-106045/1-A
Matrix: Solid
Analysis Batch: 106147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106045

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.00144	U	0.0167	0.00144	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Acenaphthylene	0.00100	U	0.0167	0.00100	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Anthracene	0.00128	U	0.0167	0.00128	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzidine	0.00902	U	0.0833	0.00902	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzo[a]anthracene	0.00138	U	0.0167	0.00138	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzo[b]fluoranthene	0.00172	U	0.0167	0.00172	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzo[k]fluoranthene	0.00149	U	0.0167	0.00149	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzo[g,h,i]perylene	0.00507	U	0.0167	0.00507	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzo[a]pyrene	0.00161	U	0.0167	0.00161	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Bis(2-chloroethoxy)methane	0.00142	U	0.0167	0.00142	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Bis(2-chloroethyl)ether	0.00165	U	0.0167	0.00165	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Bis(2-ethylhexyl) phthalate	0.00537	U	0.0667	0.00537	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Bromophenyl phenyl ether	0.00284	U	0.0167	0.00284	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Butyl benzyl phthalate	0.00619	U	0.0667	0.00619	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Chloroaniline	0.00582	U	0.0167	0.00582	mg/Kg		05/14/13 10:41	05/14/13 16:45	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-106045/1-A
Matrix: Solid
Analysis Batch: 106147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106045

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	0.00121	U	0.0167	0.00121	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Chlorophenyl phenyl ether	0.00180	U	0.0167	0.00180	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Carbazole	0.00312	U	0.0167	0.00312	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Chrysene	0.00102	U	0.0167	0.00102	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Di-n-butyl phthalate	0.00259	U	0.0667	0.00259	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Dibenz(a,h)anthracene	0.00363	U	0.0167	0.00363	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Dibenzofuran	0.00178	U	0.0167	0.00178	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
1,2-Dichlorobenzene	0.00302	U	0.0167	0.00302	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
1,3-Dichlorobenzene	0.00154	U	0.0167	0.00154	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
1,4-Dichlorobenzene	0.00225	U	0.0167	0.00225	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
3,3'-Dichlorobenzidine	0.0102	U	0.0167	0.0102	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Diethyl phthalate	0.00843	U	0.0667	0.00843	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Dimethyl phthalate	0.00489	U	0.0667	0.00489	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,4-Dinitrotoluene	0.00361	U	0.0167	0.00361	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Di-n-octyl phthalate	0.00190	U	0.0667	0.00190	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Fluoranthene	0.00311	U	0.0167	0.00311	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Fluorene	0.00236	U	0.0167	0.00236	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Hexachlorobenzene	0.00152	U	0.0167	0.00152	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Hexachlorocyclopentadiene	0.00461	U	0.0167	0.00461	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Hexachloroethane	0.00231	U	0.0167	0.00231	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Hexachlorobutadiene	0.00192	U	0.0167	0.00192	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0167	0.00350	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Isophorone	0.00100	U	0.0167	0.00100	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2-Methylnaphthalene	0.00274	U	0.0167	0.00274	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Naphthalene	0.00135	U	0.0167	0.00135	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2-Nitroaniline	0.00489	U	0.0167	0.00489	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
3-Nitroaniline	0.00715	U	0.0167	0.00715	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Nitroaniline	0.0112	U	0.0167	0.0112	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Nitrobenzene	0.00296	U	0.0167	0.00296	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
N-Nitrosodimethylamine	0.00419	U	0.0167	0.00419	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
N-Nitrosodiphenylamine	0.00189	U	0.0167	0.00189	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
N-Nitrosodi-n-propylamine	0.00222	U	0.0167	0.00222	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Phenanthrene	0.00495	U	0.0167	0.00495	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Pyrene	0.00183	U	0.0167	0.00183	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
1,2,4-Trichlorobenzene	0.00210	U	0.0167	0.00210	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Benzyl alcohol	0.00583	U	0.0167	0.00583	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Chloro-3-methylphenol	0.0156	U	0.0167	0.0156	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2-Chlorophenol	0.00197	U	0.0167	0.00197	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2-Methylphenol	0.00323	U	0.0167	0.00323	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
3 & 4 Methylphenol	0.00279	U	0.0333	0.00279	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,4-Dichlorophenol	0.00387	U	0.0167	0.00387	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,4-Dimethylphenol	0.00858	U	0.0167	0.00858	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4,6-Dinitro-2-methylphenol	0.00498	U	0.0167	0.00498	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,4-Dinitrophenol	0.00472	U	0.100	0.00472	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2-Nitrophenol	0.00389	U	0.0167	0.00389	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
4-Nitrophenol	0.00508	U	0.0167	0.00508	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
Phenol	0.00424	U	0.0167	0.00424	mg/Kg		05/14/13 10:41	05/14/13 16:45	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-106045/1-A
Matrix: Solid
Analysis Batch: 106147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106045

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.0100	U	0.0167	0.0100	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,4,6-Trichlorophenol	0.00268	U	0.0167	0.00268	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
2,6-Dinitrotoluene	0.00295	U	0.0167	0.00295	mg/Kg		05/14/13 10:41	05/14/13 16:45	1
bis (2-Chloroisopropyl) ether	0.00884	U	0.0167	0.00884	mg/Kg		05/14/13 10:41	05/14/13 16:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*80*		*56 - 123*	*05/14/13 10:41*	*05/14/13 16:45*	*1*
Nitrobenzene-d5	*77*		*34 - 118*	*05/14/13 10:41*	*05/14/13 16:45*	*1*
2-Fluorophenol	*71*		*41 - 122*	*05/14/13 10:41*	*05/14/13 16:45*	*1*
2-Fluorobiphenyl	*73*		*51 - 120*	*05/14/13 10:41*	*05/14/13 16:45*	*1*
2,4,6-Tribromophenol	*41*		*34 - 122*	*05/14/13 10:41*	*05/14/13 16:45*	*1*
Phenol-d5 (Surr)	*68*		*43 - 125*	*05/14/13 10:41*	*05/14/13 16:45*	*1*

Lab Sample ID: LCS 600-106045/2-A
Matrix: Solid
Analysis Batch: 106147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.2635		mg/Kg		79	58 - 125
Acenaphthylene	0.333	0.2694		mg/Kg		81	51 - 122
Anthracene	0.333	0.2700		mg/Kg		81	52 - 120
Benzidine	3.33	1.507		mg/Kg		45	10 - 135
Benzo[a]anthracene	0.333	0.2840		mg/Kg		85	49 - 124
Benzo[b]fluoranthene	0.333	0.2576		mg/Kg		77	58 - 130
Benzo[k]fluoranthene	0.333	0.2766		mg/Kg		83	56 - 129
Benzo[g,h,i]perylene	0.333	0.3141		mg/Kg		94	50 - 140
Benzo[a]pyrene	0.333	0.2568		mg/Kg		77	58 - 123
Bis(2-chloroethoxy)methane	0.333	0.2456		mg/Kg		74	54 - 114
Bis(2-chloroethyl)ether	0.333	0.2546		mg/Kg		76	44 - 119
Bis(2-ethylhexyl) phthalate	0.333	0.2930		mg/Kg		88	55 - 136
4-Bromophenyl phenyl ether	0.333	0.2935		mg/Kg		88	56 - 126
Butyl benzyl phthalate	0.333	0.2862		mg/Kg		86	43 - 135
4-Chloroaniline	0.333	0.2377		mg/Kg		71	42 - 122
2-Chloronaphthalene	0.333	0.2635		mg/Kg		79	50 - 123
4-Chlorophenyl phenyl ether	0.333	0.2388		mg/Kg		72	57 - 126
Carbazole	0.333	0.2875		mg/Kg		86	47 - 153
Chrysene	0.333	0.2764		mg/Kg		83	50 - 123
Di-n-butyl phthalate	0.333	0.2806		mg/Kg		84	61 - 124
Dibenz(a,h)anthracene	0.333	0.2828		mg/Kg		85	55 - 141
Dibenzofuran	0.333	0.2519		mg/Kg		76	54 - 119
1,2-Dichlorobenzene	0.333	0.2638		mg/Kg		79	57 - 117
1,3-Dichlorobenzene	0.333	0.2757		mg/Kg		83	50 - 128
1,4-Dichlorobenzene	0.333	0.2710		mg/Kg		81	59 - 117
3,3'-Dichlorobenzidine	0.333	0.2736		mg/Kg		82	18 - 172
Diethyl phthalate	0.333	0.2390		mg/Kg		72	55 - 126
Dimethyl phthalate	0.333	0.2537		mg/Kg		76	58 - 126
2,4-Dinitrotoluene	0.333	0.2267		mg/Kg		68	53 - 123
Di-n-octyl phthalate	0.333	0.2898		mg/Kg		87	45 - 135

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-106045/2-A
Matrix: Solid
Analysis Batch: 106147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	0.333	0.2629		mg/Kg		79	56 - 123
Fluorene	0.333	0.2513		mg/Kg		75	52 - 147
Hexachlorobenzene	0.333	0.2726		mg/Kg		82	59 - 122
Hexachlorocyclopentadiene	0.333	0.2603		mg/Kg		78	33 - 119
Hexachloroethane	0.333	0.2589		mg/Kg		78	36 - 116
Hexachlorobutadiene	0.333	0.2526		mg/Kg		76	49 - 123
Indeno[1,2,3-cd]pyrene	0.333	0.3034		mg/Kg		91	40 - 147
Isophorone	0.333	0.2636		mg/Kg		79	49 - 115
2-Methylnaphthalene	0.333	0.2520		mg/Kg		76	54 - 130
Naphthalene	0.333	0.2733		mg/Kg		82	52 - 117
2-Nitroaniline	0.333	0.2988		mg/Kg		90	49 - 149
3-Nitroaniline	0.333	0.2857		mg/Kg		86	45 - 133
4-Nitroaniline	0.333	0.2542		mg/Kg		76	48 - 138
Nitrobenzene	0.333	0.2706		mg/Kg		81	53 - 123
N-Nitrosodimethylamine	0.333	0.3195		mg/Kg		96	41 - 138
N-Nitrosodiphenylamine	0.333	0.3267		mg/Kg		98	47 - 127
N-Nitrosodi-n-propylamine	0.333	0.2994		mg/Kg		90	43 - 140
Phenanthrene	0.333	0.2746		mg/Kg		82	55 - 120
Pyrene	0.333	0.3353		mg/Kg		101	48 - 131
1,2,4-Trichlorobenzene	0.333	0.2607		mg/Kg		78	54 - 115
Benzyl alcohol	0.333	0.2641		mg/Kg		79	25 - 141
4-Chloro-3-methylphenol	0.333	0.2325		mg/Kg		70	54 - 119
2-Chlorophenol	0.333	0.2658		mg/Kg		80	54 - 119
2-Methylphenol	0.333	0.2515		mg/Kg		75	45 - 118
3 & 4 Methylphenol	0.333	0.2415		mg/Kg		72	44 - 126
2,4-Dichlorophenol	0.333	0.2565		mg/Kg		77	54 - 119
2,4-Dimethylphenol	0.333	0.2611		mg/Kg		78	36 - 124
4,6-Dinitro-2-methylphenol	0.333	0.1493		mg/Kg		45	34 - 124
2,4-Dinitrophenol	0.333	0.3425		mg/Kg		103	25 - 117
2-Nitrophenol	0.333	0.2624		mg/Kg		79	50 - 112
4-Nitrophenol	0.333	0.2710		mg/Kg		81	20 - 132
Pentachlorophenol	0.333	0.2599		mg/Kg		78	17 - 124
Phenol	0.333	0.2721		mg/Kg		82	33 - 122
2,4,5-Trichlorophenol	0.333	0.2627		mg/Kg		79	59 - 136
2,4,6-Trichlorophenol	0.333	0.2481		mg/Kg		74	59 - 134
2,6-Dinitrotoluene	0.333	0.2426		mg/Kg		73	53 - 116
bis (2-Chloroisopropyl) ether	0.333	0.3277		mg/Kg		98	51 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*91*		*56 - 123*
Nitrobenzene-d5	*83*		*34 - 118*
2-Fluorophenol	*77*		*41 - 122*
2-Fluorobiphenyl	*81*		*51 - 120*
2,4,6-Tribromophenol	*64*		*34 - 122*
Phenol-d5 (Surr)	*79*		*43 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-105897/1-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105897

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0506	U	0.500	0.0506	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Barium	0.2750	J	1.00	0.0300	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Silver	0.119	U	0.500	0.119	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		05/10/13 15:18	05/13/13 21:28	1
Selenium	0.259	U	2.00	0.259	mg/Kg		05/10/13 15:18	05/13/13 21:28	1

Lab Sample ID: LCSSRM 600-105897/2-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105897

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	119	124.5		mg/Kg		104.6	81.6 - 117.6
Lead	76.9	84.81		mg/Kg		110.3	81.3 - 118.7
Cadmium	103	115.0		mg/Kg		111.7	83.6 - 115.5
Barium	213	220.8		mg/Kg		103.7	83.1 - 116.9
Silver	42.3	47.18		mg/Kg		111.5	66.4 - 133.8
Arsenic	168	174.2		mg/Kg		103.7	83.3 - 117.3
Selenium	126	135.9		mg/Kg		107.9	80.2 - 120.6

Lab Sample ID: 600-72906-2 MS
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: 2013-RMSB-3 (2-3)
Prep Type: Total/NA
Prep Batch: 105897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	8.54		54.6	61.91		mg/Kg	☼	98	75 - 125
Lead	8.78		54.6	67.48		mg/Kg	☼	108	75 - 125
Cadmium	0.0283	U	27.3	25.58		mg/Kg	☼	94	75 - 125
Barium	53.2		54.6	109.2		mg/Kg	☼	102	75 - 125
Silver	0.131		27.3	27.93		mg/Kg	☼	102	75 - 125
Arsenic	4.08		54.6	52.69		mg/Kg	☼	89	75 - 125
Selenium	0.285	U	54.6	49.45		mg/Kg	☼	91	75 - 125

Lab Sample ID: 600-72906-2 MSD
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: 2013-RMSB-3 (2-3)
Prep Type: Total/NA
Prep Batch: 105897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	8.54		56.7	63.67		mg/Kg	☼	97	75 - 125	3	20
Lead	8.78		56.7	69.28		mg/Kg	☼	107	75 - 125	3	20
Cadmium	0.0283	U	28.3	26.81		mg/Kg	☼	95	75 - 125	5	20
Barium	53.2		56.7	110.6		mg/Kg	☼	101	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-72906-2 MSD
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: 2013-RMSB-3 (2-3)
Prep Type: Total/NA
Prep Batch: 105897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.131		28.3	29.07		mg/Kg	☼	103	75 - 125	4	20
Arsenic	4.08		56.7	55.31		mg/Kg	☼	90	75 - 125	5	20
Selenium	0.285	U	56.7	51.52		mg/Kg	☼	91	75 - 125	4	20

Lab Sample ID: 600-72906-2 DU
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: 2013-RMSB-3 (2-3)
Prep Type: Total/NA
Prep Batch: 105897

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	8.54		9.984		mg/Kg	☼	16	20
Lead	8.78		21.75	F	mg/Kg	☼	85	20
Cadmium	0.0283	U	0.0291	U	mg/Kg	☼	NC	20
Barium	53.2		59.25		mg/Kg	☼	11	20
Silver	0.131		0.135	U	mg/Kg	☼	NC	20
Arsenic	4.08		9.054	F	mg/Kg	☼	76	20
Selenium	0.285	U	0.294	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 600-105922/1-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105922

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0506	U	0.500	0.0506	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Barium	0.2850	J	1.00	0.0300	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Silver	0.119	U	0.500	0.119	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Arsenic	0.218	U	1.00	0.218	mg/Kg		05/10/13 17:37	05/13/13 23:02	1
Selenium	0.259	U	2.00	0.259	mg/Kg		05/10/13 17:37	05/13/13 23:02	1

Lab Sample ID: LCSSRM 600-105922/2-A
Matrix: Solid
Analysis Batch: 106003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105922

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	119	113.6		mg/Kg		95.5	81.6 - 117.6
Lead	76.9	81.54		mg/Kg		106.0	81.3 - 118.7
Cadmium	103	104.2		mg/Kg		101.2	83.6 - 115.5
Barium	213	223.4		mg/Kg		104.9	83.1 - 116.9
Silver	42.3	44.29		mg/Kg		104.7	66.4 - 133.8
Arsenic	168	159.4		mg/Kg		94.9	83.3 - 117.3
Selenium	126	127.0		mg/Kg		100.8	80.2 - 120.6

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-105944/7-A
Matrix: Solid
Analysis Batch: 105965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105944

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0469	0.00336	mg/Kg		05/13/13 07:00	05/13/13 10:06	1

Lab Sample ID: LCSSRM 600-105944/8-A
Matrix: Solid
Analysis Batch: 105965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105944

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			25.3	22.71		mg/Kg		89.7	71.5 - 128. 1		

Method: Moisture - Percent Moisture

Lab Sample ID: 600-72906-5 DU
Matrix: Solid
Analysis Batch: 105891

Client Sample ID: Dup 17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16			16		%				2	20
Percent Solids	84			84		%				0.4	20

Lab Sample ID: 600-72906-15 DU
Matrix: Solid
Analysis Batch: 105891

Client Sample ID: MW-31 (0.9-2)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	20			19		%				4	20
Percent Solids	80			81		%				1	20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	MQL	MDL	Units	Method
1,1,1-Trichloroethane	0.00500	0.000740	mg/Kg	8260B
1,1,2,2-Tetrachloroethane	0.00500	0.000870	mg/Kg	8260B
1,1,2-Trichloroethane	0.00500	0.000730	mg/Kg	8260B
1,1-Dichloroethane	0.00500	0.000870	mg/Kg	8260B
1,1-Dichloroethene	0.00500	0.00122	mg/Kg	8260B
1,2-Dichloroethane	0.00500	0.000900	mg/Kg	8260B
1,2-Dichloroethene, Total	0.0100	0.00190	mg/Kg	8260B
1,2-Dichloropropane	0.00500	0.000710	mg/Kg	8260B
2-Butanone (MEK)	0.0100	0.00190	mg/Kg	8260B
2-Hexanone	0.0100	0.00101	mg/Kg	8260B
4-Methyl-2-pentanone (MIBK)	0.0100	0.00147	mg/Kg	8260B
Acetone	0.0100	0.00166	mg/Kg	8260B
Benzene	0.00500	0.000630	mg/Kg	8260B
Bromodichloromethane	0.00500	0.000660	mg/Kg	8260B
Bromoform	0.00500	0.00137	mg/Kg	8260B
Bromomethane	0.0100	0.000830	mg/Kg	8260B
Carbon disulfide	0.0100	0.000550	mg/Kg	8260B
Carbon tetrachloride	0.00500	0.00113	mg/Kg	8260B
Chlorobenzene	0.00500	0.000960	mg/Kg	8260B
Chlorobromomethane	0.00500	0.00178	mg/Kg	8260B
Chloroethane	0.0100	0.00140	mg/Kg	8260B
Chloroform	0.00500	0.000660	mg/Kg	8260B
Chloromethane	0.0100	0.00166	mg/Kg	8260B
cis-1,2-Dichloroethene	0.00500	0.000830	mg/Kg	8260B
cis-1,3-Dichloropropene	0.00500	0.000540	mg/Kg	8260B
Dibromochloromethane	0.00500	0.000940	mg/Kg	8260B
Ethylbenzene	0.00500	0.00102	mg/Kg	8260B
Methyl tert-butyl ether	0.00500	0.00183	mg/Kg	8260B
Methylene Chloride	0.0100	0.00219	mg/Kg	8260B
m-Xylene & p-Xylene	0.0100	0.00152	mg/Kg	8260B
o-Xylene	0.00500	0.00113	mg/Kg	8260B
Styrene	0.00500	0.000710	mg/Kg	8260B
Tetrachloroethene	0.00500	0.000710	mg/Kg	8260B
Toluene	0.00500	0.00138	mg/Kg	8260B
trans-1,2-Dichloroethene	0.00500	0.00114	mg/Kg	8260B
trans-1,3-Dichloropropene	0.00500	0.000580	mg/Kg	8260B
Trichloroethene	0.00500	0.00140	mg/Kg	8260B
Vinyl acetate	0.00500	0.000930	mg/Kg	8260B
Vinyl chloride	0.0100	0.000900	mg/Kg	8260B
Xylenes, Total	0.00500	0.00113	mg/Kg	8260B

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	MQL	MDL	Units	Method
1,2,4-Trichlorobenzene	0.0167	0.00210	mg/Kg	8270C LL
1,2-Dichlorobenzene	0.0167	0.00302	mg/Kg	8270C LL
1,3-Dichlorobenzene	0.0167	0.00154	mg/Kg	8270C LL
1,4-Dichlorobenzene	0.0167	0.00225	mg/Kg	8270C LL
2,4,5-Trichlorophenol	0.0167	0.0100	mg/Kg	8270C LL
2,4,6-Trichlorophenol	0.0167	0.00268	mg/Kg	8270C LL
2,4-Dichlorophenol	0.0167	0.00387	mg/Kg	8270C LL
2,4-Dimethylphenol	0.0167	0.00858	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
2,4-Dinitrophenol	0.100	0.00472	mg/Kg	8270C LL
2,4-Dinitrotoluene	0.0167	0.00361	mg/Kg	8270C LL
2,6-Dinitrotoluene	0.0167	0.00295	mg/Kg	8270C LL
2-Chloronaphthalene	0.0167	0.00121	mg/Kg	8270C LL
2-Chlorophenol	0.0167	0.00197	mg/Kg	8270C LL
2-Methylnaphthalene	0.0167	0.00274	mg/Kg	8270C LL
2-Methylphenol	0.0167	0.00323	mg/Kg	8270C LL
2-Nitroaniline	0.0167	0.00489	mg/Kg	8270C LL
2-Nitrophenol	0.0167	0.00389	mg/Kg	8270C LL
3 & 4 Methylphenol	0.0333	0.00279	mg/Kg	8270C LL
3,3'-Dichlorobenzidine	0.0167	0.0102	mg/Kg	8270C LL
3-Nitroaniline	0.0167	0.00715	mg/Kg	8270C LL
4,6-Dinitro-2-methylphenol	0.0167	0.00498	mg/Kg	8270C LL
4-Bromophenyl phenyl ether	0.0167	0.00284	mg/Kg	8270C LL
4-Chloro-3-methylphenol	0.0167	0.0156	mg/Kg	8270C LL
4-Chloroaniline	0.0167	0.00582	mg/Kg	8270C LL
4-Chlorophenyl phenyl ether	0.0167	0.00180	mg/Kg	8270C LL
4-Nitroaniline	0.0167	0.0112	mg/Kg	8270C LL
4-Nitrophenol	0.0167	0.00508	mg/Kg	8270C LL
Acenaphthene	0.0167	0.00144	mg/Kg	8270C LL
Acenaphthylene	0.0167	0.00100	mg/Kg	8270C LL
Anthracene	0.0167	0.00128	mg/Kg	8270C LL
Benzidine	0.0833	0.00902	mg/Kg	8270C LL
Benzo[a]anthracene	0.0167	0.00138	mg/Kg	8270C LL
Benzo[a]pyrene	0.0167	0.00161	mg/Kg	8270C LL
Benzo[b]fluoranthene	0.0167	0.00172	mg/Kg	8270C LL
Benzo[g,h,i]perylene	0.0167	0.00507	mg/Kg	8270C LL
Benzo[k]fluoranthene	0.0167	0.00149	mg/Kg	8270C LL
Benzyl alcohol	0.0167	0.00583	mg/Kg	8270C LL
bis (2-Chloroisopropyl) ether	0.0167	0.00884	mg/Kg	8270C LL
Bis(2-chloroethoxy)methane	0.0167	0.00142	mg/Kg	8270C LL
Bis(2-chloroethyl)ether	0.0167	0.00165	mg/Kg	8270C LL
Bis(2-ethylhexyl) phthalate	0.0667	0.00537	mg/Kg	8270C LL
Butyl benzyl phthalate	0.0667	0.00619	mg/Kg	8270C LL
Carbazole	0.0167	0.00312	mg/Kg	8270C LL
Chrysene	0.0167	0.00102	mg/Kg	8270C LL
Dibenz(a,h)anthracene	0.0167	0.00363	mg/Kg	8270C LL
Dibenzofuran	0.0167	0.00178	mg/Kg	8270C LL
Diethyl phthalate	0.0667	0.00843	mg/Kg	8270C LL
Dimethyl phthalate	0.0667	0.00489	mg/Kg	8270C LL
Di-n-butyl phthalate	0.0667	0.00259	mg/Kg	8270C LL
Di-n-octyl phthalate	0.0667	0.00190	mg/Kg	8270C LL
Fluoranthene	0.0167	0.00311	mg/Kg	8270C LL
Fluorene	0.0167	0.00236	mg/Kg	8270C LL
Hexachlorobenzene	0.0167	0.00152	mg/Kg	8270C LL
Hexachlorobutadiene	0.0167	0.00192	mg/Kg	8270C LL
Hexachlorocyclopentadiene	0.0167	0.00461	mg/Kg	8270C LL
Hexachloroethane	0.0167	0.00231	mg/Kg	8270C LL
Indeno[1,2,3-cd]pyrene	0.0167	0.00350	mg/Kg	8270C LL
Isophorone	0.0167	0.00100	mg/Kg	8270C LL
Naphthalene	0.0167	0.00135	mg/Kg	8270C LL
Nitrobenzene	0.0167	0.00296	mg/Kg	8270C LL

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	MQL	MDL	Units	Method
N-Nitrosodimethylamine	0.0167	0.00419	mg/Kg	8270C LL
N-Nitrosodi-n-propylamine	0.0167	0.00222	mg/Kg	8270C LL
N-Nitrosodiphenylamine	0.0167	0.00189	mg/Kg	8270C LL
Pentachlorophenol	0.167	0.00400	mg/Kg	8270C LL
Phenanthrene	0.0167	0.00495	mg/Kg	8270C LL
Phenol	0.0167	0.00424	mg/Kg	8270C LL
Pyrene	0.0167	0.00183	mg/Kg	8270C LL

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Arsenic	1.00	0.218	mg/Kg	6010B
Barium	1.00	0.0300	mg/Kg	6010B
Cadmium	0.250	0.0256	mg/Kg	6010B
Chromium	0.500	0.0506	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B
Selenium	2.00	0.259	mg/Kg	6010B
Silver	0.500	0.119	mg/Kg	6010B

Method: 7471A - Mercury (CVAA)

Analyte	MQL	MDL	Units	Method
Mercury	0.0500	0.00358	mg/Kg	7471A

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Analysis Batch: 105880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	8260B	
LCS 600-105880/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-105880/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 105934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	8260B	
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	8260B	
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	8260B	
600-72906-14	2013-RMSB-5 (2-5)	Total/NA	Solid	8260B	
LCS 600-105934/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 600-105934/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 105942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	3550B	
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	3550B	
600-72906-B-6-C MS	600-72906-B-6-C MS	Total/NA	Solid	3550B	
600-72906-B-6-D MSD	600-72906-B-6-D MSD	Total/NA	Solid	3550B	
LCS 600-105942/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-105942/1-A	Method Blank	Total/NA	Solid	3550B	

Prep Batch: 106045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	3550B	
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	3550B	
LCS 600-106045/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 600-106045/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 106070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	8270C LL	105942
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	8270C LL	105942
600-72906-B-6-C MS	600-72906-B-6-C MS	Total/NA	Solid	8270C LL	105942
600-72906-B-6-D MSD	600-72906-B-6-D MSD	Total/NA	Solid	8270C LL	105942
LCS 600-105942/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	105942
MB 600-105942/1-A	Method Blank	Total/NA	Solid	8270C LL	105942

Analysis Batch: 106147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	8270C LL	106045
LCS 600-106045/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	106045
MB 600-106045/1-A	Method Blank	Total/NA	Solid	8270C LL	106045

Analysis Batch: 106205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	8270C LL	106045

Metals

Prep Batch: 105897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-1	2013-RMSB-3 (1.5-2)	Total/NA	Solid	3050B	
600-72906-2	2013-RMSB-3 (2-3)	Total/NA	Solid	3050B	
600-72906-2 DU	2013-RMSB-3 (2-3)	Total/NA	Solid	3050B	
600-72906-2 MS	2013-RMSB-3 (2-3)	Total/NA	Solid	3050B	
600-72906-2 MSD	2013-RMSB-3 (2-3)	Total/NA	Solid	3050B	
600-72906-3	2013-RMSB-3 (5-5.5)	Total/NA	Solid	3050B	
600-72906-4	2013-RMSB-3 (6)	Total/NA	Solid	3050B	
600-72906-5	Dup 17	Total/NA	Solid	3050B	
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	3050B	
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	3050B	
LCSSRM 600-105897/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105897/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 105922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	3050B	
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	3050B	
600-72906-10	2013-RMSB-7 (1.5-2)	Total/NA	Solid	3050B	
600-72906-11	2013-RMSB-7 (2-4)	Total/NA	Solid	3050B	
600-72906-12	2013-RMSB-7 (5-6)	Total/NA	Solid	3050B	
600-72906-13	2013-RMSB-7 (6.5)	Total/NA	Solid	3050B	
600-72906-15	MW-31 (0.9-2)	Total/NA	Solid	3050B	
600-72906-15 - DL	MW-31 (0.9-2)	Total/NA	Solid	3050B	
600-72906-16	MW-31 (5.8-8)	Total/NA	Solid	3050B	
600-72906-17	MW-31 (9.5)	Total/NA	Solid	3050B	
600-72906-18	Dup 18	Total/NA	Solid	3050B	
LCSSRM 600-105922/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-105922/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 105944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	7471A	
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	7471A	
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	7471A	
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	7471A	
LCSSRM 600-105944/8-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 600-105944/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 105965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	7471A	105944
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	7471A	105944
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	7471A	105944
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	7471A	105944
LCSSRM 600-105944/8-A	Lab Control Sample	Total/NA	Solid	7471A	105944
MB 600-105944/7-A	Method Blank	Total/NA	Solid	7471A	105944

Analysis Batch: 106003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-1	2013-RMSB-3 (1.5-2)	Total/NA	Solid	6010B	105897
600-72906-2	2013-RMSB-3 (2-3)	Total/NA	Solid	6010B	105897

Metals (Continued)

Analysis Batch: 106003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-2 DU	2013-RMSB-3 (2-3)	Total/NA	Solid	6010B	105897
600-72906-2 MS	2013-RMSB-3 (2-3)	Total/NA	Solid	6010B	105897
600-72906-2 MSD	2013-RMSB-3 (2-3)	Total/NA	Solid	6010B	105897
600-72906-3	2013-RMSB-3 (5-5.5)	Total/NA	Solid	6010B	105897
600-72906-4	2013-RMSB-3 (6)	Total/NA	Solid	6010B	105897
600-72906-5	Dup 17	Total/NA	Solid	6010B	105897
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	6010B	105897
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	6010B	105897
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	6010B	105922
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	6010B	105922
600-72906-10	2013-RMSB-7 (1.5-2)	Total/NA	Solid	6010B	105922
600-72906-11	2013-RMSB-7 (2-4)	Total/NA	Solid	6010B	105922
600-72906-12	2013-RMSB-7 (5-6)	Total/NA	Solid	6010B	105922
600-72906-13	2013-RMSB-7 (6.5)	Total/NA	Solid	6010B	105922
600-72906-15	MW-31 (0.9-2)	Total/NA	Solid	6010B	105922
600-72906-16	MW-31 (5.8-8)	Total/NA	Solid	6010B	105922
600-72906-17	MW-31 (9.5)	Total/NA	Solid	6010B	105922
600-72906-18	Dup 18	Total/NA	Solid	6010B	105922
LCSSRM 600-105897/2-A	Lab Control Sample	Total/NA	Solid	6010B	105897
LCSSRM 600-105922/2-A	Lab Control Sample	Total/NA	Solid	6010B	105922
MB 600-105897/1-A	Method Blank	Total/NA	Solid	6010B	105897
MB 600-105922/1-A	Method Blank	Total/NA	Solid	6010B	105922

Analysis Batch: 106100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-15 - DL	MW-31 (0.9-2)	Total/NA	Solid	6010B	105922

General Chemistry

Analysis Batch: 105891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-1	2013-RMSB-3 (1.5-2)	Total/NA	Solid	Moisture	
600-72906-2	2013-RMSB-3 (2-3)	Total/NA	Solid	Moisture	
600-72906-3	2013-RMSB-3 (5-5.5)	Total/NA	Solid	Moisture	
600-72906-4	2013-RMSB-3 (6)	Total/NA	Solid	Moisture	
600-72906-5	Dup 17	Total/NA	Solid	Moisture	
600-72906-5 DU	Dup 17	Total/NA	Solid	Moisture	
600-72906-6	2013-RMSB-10 (1.3-2)	Total/NA	Solid	Moisture	
600-72906-7	2013-RMSB-10 (2-3)	Total/NA	Solid	Moisture	
600-72906-8	2013-RMSB-10 (5-6)	Total/NA	Solid	Moisture	
600-72906-9	2013-RMSB-10 (7)	Total/NA	Solid	Moisture	
600-72906-9 MS	2013-RMSB-10 (7)	Total/NA	Solid	Moisture	
600-72906-9 MSD	2013-RMSB-10 (7)	Total/NA	Solid	Moisture	
600-72906-10	2013-RMSB-7 (1.5-2)	Total/NA	Solid	Moisture	
600-72906-11	2013-RMSB-7 (2-4)	Total/NA	Solid	Moisture	
600-72906-12	2013-RMSB-7 (5-6)	Total/NA	Solid	Moisture	
600-72906-13	2013-RMSB-7 (6.5)	Total/NA	Solid	Moisture	
600-72906-14	2013-RMSB-5 (2-5)	Total/NA	Solid	Moisture	
600-72906-15	MW-31 (0.9-2)	Total/NA	Solid	Moisture	
600-72906-15 DU	MW-31 (0.9-2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 105891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-72906-16	MW-31 (5.8-8)	Total/NA	Solid	Moisture	
600-72906-17	MW-31 (9.5)	Total/NA	Solid	Moisture	
600-72906-18	Dup 18	Total/NA	Solid	Moisture	

Client Sample ID: 2013-RMSB-3 (1.5-2)

Lab Sample ID: 600-72906-1

Date Collected: 05/08/13 15:13
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-3 (2-3)

Lab Sample ID: 600-72906-2

Date Collected: 05/08/13 15:14
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-3 (5-5.5)

Lab Sample ID: 600-72906-3

Date Collected: 05/08/13 15:15
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:39	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-3 (6)

Lab Sample ID: 600-72906-4

Date Collected: 05/08/13 15:16
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:41	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: Dup 17

Lab Sample ID: 600-72906-5

Date Collected: 05/08/13 00:00
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:43	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-10 (1.3-2)

Lab Sample ID: 600-72906-6

Date Collected: 05/08/13 16:20
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105880	05/10/13 18:55	WS	TAL HOU
Total/NA	Prep	3550B			106045	05/14/13 10:41	RK	TAL HOU
Total/NA	Analysis	8270C LL		1	106147	05/14/13 18:58	JH	TAL HOU
Total/NA	Prep	7471A			105944	05/13/13 07:00	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105965	05/13/13 10:23	MJT	TAL HOU
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:45	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-10 (2-3)

Lab Sample ID: 600-72906-7

Date Collected: 05/08/13 16:21
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105934	05/11/13 15:50	WS	TAL HOU
Total/NA	Prep	3550B			105942	05/12/13 14:09	LB	TAL HOU
Total/NA	Analysis	8270C LL		1	106070	05/13/13 14:15	TTD	TAL HOU
Total/NA	Prep	7471A			105944	05/13/13 07:00	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105965	05/13/13 10:28	MJT	TAL HOU
Total/NA	Prep	3050B			105897	05/10/13 15:18	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 22:48	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-10 (5-6)

Lab Sample ID: 600-72906-8

Date Collected: 05/08/13 16:22
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105934	05/11/13 16:13	WS	TAL HOU
Total/NA	Prep	3550B			105942	05/12/13 14:09	LB	TAL HOU
Total/NA	Analysis	8270C LL		1	106070	05/13/13 14:41	TTD	TAL HOU
Total/NA	Prep	7471A			105944	05/13/13 07:00	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105965	05/13/13 10:30	MJT	TAL HOU
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:06	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-10 (7)

Lab Sample ID: 600-72906-9

Date Collected: 05/08/13 16:23
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105934	05/11/13 10:43	WS	TAL HOU
Total/NA	Prep	3550B			106045	05/14/13 10:41	RK	TAL HOU
Total/NA	Analysis	8270C LL		1	106205	05/15/13 11:44	JH	TAL HOU
Total/NA	Prep	7471A			105944	05/13/13 07:00	MJT	TAL HOU
Total/NA	Analysis	7471A		1	105965	05/13/13 10:32	MJT	TAL HOU
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:09	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-7 (1.5-2)

Lab Sample ID: 600-72906-10

Date Collected: 05/08/13 16:56
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:11	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-7 (2-4)

Lab Sample ID: 600-72906-11

Date Collected: 05/08/13 16:57
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:14	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-7 (5-6)

Lab Sample ID: 600-72906-12

Date Collected: 05/08/13 16:58
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:16	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-7 (6.5)

Lab Sample ID: 600-72906-13

Date Collected: 05/08/13 16:55
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU

Client Sample ID: 2013-RMSB-7 (6.5)

Lab Sample ID: 600-72906-13

Date Collected: 05/08/13 16:55
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	106003	05/13/13 23:19	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: 2013-RMSB-5 (2-5)

Lab Sample ID: 600-72906-14

Date Collected: 05/07/13 10:19
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	105934	05/11/13 11:07	WS	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: MW-31 (0.9-2)

Lab Sample ID: 600-72906-15

Date Collected: 05/09/13 10:17
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:21	DCL	TAL HOU
Total/NA	Prep	3050B	DL		105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	106100	05/14/13 15:16	TWR	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: MW-31 (5.8-8)

Lab Sample ID: 600-72906-16

Date Collected: 05/09/13 10:18
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:23	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Client Sample ID: MW-31 (9.5)

Lab Sample ID: 600-72906-17

Date Collected: 05/09/13 10:19
Matrix: Solid
Date Received: 05/10/13 08:34
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:33	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-72906-1

Client Sample ID: Dup 18
Date Collected: 05/10/13 00:00
Date Received: 05/10/13 08:34

Lab Sample ID: 600-72906-18
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			105922	05/10/13 17:37	NER	TAL HOU
Total/NA	Analysis	6010B		1	106003	05/13/13 23:35	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	105891	05/10/13 14:34	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
TestAmerica Job ID: 600-72906-1
Project/Site: Exide Recycling Center, Frisco TX Projec

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/8/2013	243489
Address 2201 Double Creek Dr Suite 4004	Telephone Number (Area Code)/Fax Number 512.671.3434	Lab Number	Page 1 of 2
City Round Rock **State** TX **Zip Code** 78664	Site Contact	Lab Contact	
Project Name and Location (State) EXIDE FRISCO, TX	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

600-72906 Chain of Custody

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	ICE	Pb, Cd	RCRA Metals	SVOCs	VOCs
2013-RMSB-3(1.5-2)	5/8/13	1513				X							1	X			
2013-RMSB-3(2-2.5)3)		1514											1				
2013-RMSB-3(5-5.5)		1515											1				
2013-RMSB-3(6)		1516											1				
Dup 17		-											1				
2013-RMSB-10(1.3-2)		1620											2		X	X	X
2013-RMSB-10(2-3)		1621											2				
2013-RMSB-10(5-6)		1622											2				
2013-RMSB-10(7)		1623											2				
2013-RMSB-7(1.5-2)		1656											1	X			
2013-RMSB-7(2-4)		1657											1				
2013-RMSB-7(5-6)		1658											1				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		5/9/13	1415		5/9/13	1415
2.		5/9/13	1710			
3.					5/10/13	0834

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Page 74 of 76

6/20/2013

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/8/13	205011
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. Suite 4004	512 671 3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664			
Project Name and Location (State)	**Carrier/Waybill Number**		
EXIDE FRISCO TX			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis: Pb,Cd	VOCs	Special Instructions/ Conditions of Receipt
2013-RMSB-7(6.5)	5/8/13	1659				X							1	X		
2013-RMSB-5(2-5)	5/7/13	1019				X							2		X	
MW-31(0.9-2)	5/9/13	1017				X							1	X		
MW-31(5.8-8)	↓	1018				X							1	X		
MW-31(9.5)	↓	1019				X							1	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

		Date	Time
1. Relinquished By		5/9/13	1415
2. Relinquished By		5/9/13	1720
3. Relinquished By			
1. Received By		5/9/13	1415
2. Received By			
3. Received By		05/10/13	0834

Comments

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-72906-1

Login Number: 72906

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-73243-1
Client Project/Site: Shooting Berm- Former Op Plant

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/3/2013 4:41:19 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 14
QC Sample Results 15
Default Detection Limits 16
QC Association Summary 17
Lab Chronicle 19
Certification Summary 22
Chain of Custody 23
Receipt Checklists 24

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-73243-1

Project Name/Number: Shooting Berm- Former Op Plant

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/03/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/21/13
Project Name: Shooting Berm- Former Op Plant	Laboratory Job Number: 600-73243
Reviewer Name: TWR	Prep Batch Number(s): 600-106339- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/21/13
Project Name: Shooting Berm- Former Op Plant	Laboratory Job Number: 600-73243
Reviewer Name: TWR	Prep Batch Number(s): 600-106339- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/21/13
Project Name: Shooting Berm- Former Op Plant	Laboratory Job Number: 600-73243
Reviewer Name: TWR	Prep Batch Number(s): 600-106339- ICP

ER #[1]	DESCRIPTION

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-73243-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-73243-1

Comments
No additional comments.

Receipt
The samples were received on 5/16/2013 8:41 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.3º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-73243-1	SRB - VS - 1	Solid	05/15/13 10:30	05/16/13 08:41
600-73243-2	SRB - VS - 2	Solid	05/15/13 10:40	05/16/13 08:41
600-73243-3	SRB - VS - 3	Solid	05/15/13 10:50	05/16/13 08:41
600-73243-4	SRB - VS - 4	Solid	05/15/13 11:00	05/16/13 08:41
600-73243-5	SRB - VS - 5	Solid	05/15/13 11:10	05/16/13 08:41
600-73243-6	SRB - VS - 6	Solid	05/15/13 11:20	05/16/13 08:41
600-73243-7	SRB - VS - 7	Solid	05/15/13 11:30	05/16/13 08:41
600-73243-8	SRB - VS - 8	Solid	05/15/13 11:40	05/16/13 08:41
600-73243-9	SRB - VS - 9	Solid	05/15/13 11:50	05/16/13 08:41
600-73243-10	SRB - VS - 10	Solid	05/15/13 11:55	05/16/13 08:41
600-73243-11	SRB - VS - 11	Solid	05/15/13 12:00	05/16/13 08:41

Client Sample ID: SRB - VS - 1

Lab Sample ID: 600-73243-1
Date Collected: 05/15/13 10:30
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 93.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.186	J	0.266	0.0272	mg/Kg	☼	05/17/13 11:34	05/17/13 17:47	1
Lead	27.8		0.531	0.111	mg/Kg	☼	05/17/13 11:34	05/17/13 17:47	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	93		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 2

Lab Sample ID: 600-73243-2
Date Collected: 05/15/13 10:40
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.132	J	0.263	0.0270	mg/Kg	☼	05/17/13 11:34	05/17/13 17:50	1
Lead	58.1		0.527	0.110	mg/Kg	☼	05/17/13 11:34	05/17/13 17:50	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	90		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 3

Lab Sample ID: 600-73243-3
Date Collected: 05/15/13 10:50
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.891		0.258	0.0264	mg/Kg	☼	05/17/13 11:34	05/17/13 17:52	1
Lead	20.7		0.515	0.108	mg/Kg	☼	05/17/13 11:34	05/17/13 17:52	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	91		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 4

Lab Sample ID: 600-73243-4
Date Collected: 05/15/13 11:00
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 96.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.551		0.244	0.0250	mg/Kg	☼	05/17/13 11:34	05/17/13 17:55	1
Lead	21.8		0.488	0.102	mg/Kg	☼	05/17/13 11:34	05/17/13 17:55	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	97		1.0	1.0	%			05/17/13 10:56	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Client Sample ID: SRB - VS - 5

Lab Sample ID: 600-73243-5
Date Collected: 05/15/13 11:10
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 87.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.43		0.273	0.0280	mg/Kg	☼	05/17/13 11:34	05/17/13 17:57	1
Lead	477		0.547	0.115	mg/Kg	☼	05/17/13 11:34	05/17/13 17:57	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	87		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 6

Lab Sample ID: 600-73243-6
Date Collected: 05/15/13 11:20
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.159	J	0.257	0.0264	mg/Kg	☼	05/17/13 11:34	05/17/13 18:00	1
Lead	11.3		0.514	0.108	mg/Kg	☼	05/17/13 11:34	05/17/13 18:00	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	90		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 7

Lab Sample ID: 600-73243-7
Date Collected: 05/15/13 11:30
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.729		0.289	0.0297	mg/Kg	☼	05/17/13 11:34	05/17/13 18:02	1
Lead	24.8		0.578	0.121	mg/Kg	☼	05/17/13 11:34	05/17/13 18:02	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	86		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 8

Lab Sample ID: 600-73243-8
Date Collected: 05/15/13 11:40
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.682		0.273	0.0280	mg/Kg	☼	05/17/13 11:34	05/17/13 18:05	1
Lead	40.4		0.545	0.114	mg/Kg	☼	05/17/13 11:34	05/17/13 18:05	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	86		1.0	1.0	%			05/17/13 10:56	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Client Sample ID: SRB - VS - 9

Lab Sample ID: 600-73243-9
Date Collected: 05/15/13 11:50
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 82.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	7.79		0.299	0.0307	mg/Kg	☼	05/17/13 11:34	05/17/13 18:22	1
Lead	1330		0.599	0.126	mg/Kg	☼	05/17/13 11:34	05/17/13 18:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	83		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 10

Lab Sample ID: 600-73243-10
Date Collected: 05/15/13 11:55
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 80.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.35		0.298	0.0305	mg/Kg	☼	05/17/13 11:34	05/17/13 18:24	1
Lead	203		0.595	0.125	mg/Kg	☼	05/17/13 11:34	05/17/13 18:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	81		1.0	1.0	%			05/17/13 10:56	1

Client Sample ID: SRB - VS - 11

Lab Sample ID: 600-73243-11
Date Collected: 05/15/13 12:00
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.47		0.276	0.0283	mg/Kg	☼	05/17/13 11:34	05/17/13 18:27	1
Lead	384		0.553	0.116	mg/Kg	☼	05/17/13 11:34	05/17/13 18:27	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		1.0	1.0	%			05/17/13 10:56	1
Percent Solids	90		1.0	1.0	%			05/17/13 10:56	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-106339/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106370 — **Prep Batch: 106339**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/17/13 11:34	05/17/13 17:36	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/17/13 11:34	05/17/13 17:36	1

Lab Sample ID: LCSSRM 600-106339/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106370 — **Prep Batch: 106339**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	100.7		mg/Kg		97.8	83.6 - 115.5
Lead	76.9	69.71		mg/Kg		90.7	81.3 - 118.7

Lab Sample ID: 600-73243-8 MS — **Client Sample ID: SRB - VS - 8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106370 — **Prep Batch: 106339**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.682		28.1	30.08		mg/Kg	☼	105	75 - 125
Lead	40.4		56.1	99.07		mg/Kg	☼	104	75 - 125

Lab Sample ID: 600-73243-8 MSD — **Client Sample ID: SRB - VS - 8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106370 — **Prep Batch: 106339**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.682		27.8	29.25		mg/Kg	☼	103	75 - 125	3	20
Lead	40.4		55.6	107.5		mg/Kg	☼	121	75 - 125	8	20

Lab Sample ID: 600-73243-8 DU — **Client Sample ID: SRB - VS - 8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106370 — **Prep Batch: 106339**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.682		0.5620		mg/Kg	☼	19	20
Lead	40.4		35.83		mg/Kg	☼	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-73243-5 DU — **Client Sample ID: SRB - VS - 5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 106335

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13		14		%		9	20
Percent Solids	87		86		%		1	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 106339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73243-1	SRB - VS - 1	Total/NA	Solid	3050B	
600-73243-2	SRB - VS - 2	Total/NA	Solid	3050B	
600-73243-3	SRB - VS - 3	Total/NA	Solid	3050B	
600-73243-4	SRB - VS - 4	Total/NA	Solid	3050B	
600-73243-5	SRB - VS - 5	Total/NA	Solid	3050B	
600-73243-6	SRB - VS - 6	Total/NA	Solid	3050B	
600-73243-7	SRB - VS - 7	Total/NA	Solid	3050B	
600-73243-8	SRB - VS - 8	Total/NA	Solid	3050B	
600-73243-8 DU	SRB - VS - 8	Total/NA	Solid	3050B	
600-73243-8 MS	SRB - VS - 8	Total/NA	Solid	3050B	
600-73243-8 MSD	SRB - VS - 8	Total/NA	Solid	3050B	
600-73243-9	SRB - VS - 9	Total/NA	Solid	3050B	
600-73243-10	SRB - VS - 10	Total/NA	Solid	3050B	
600-73243-11	SRB - VS - 11	Total/NA	Solid	3050B	
LCSSRM 600-106339/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-106339/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 106370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73243-1	SRB - VS - 1	Total/NA	Solid	6010B	106339
600-73243-2	SRB - VS - 2	Total/NA	Solid	6010B	106339
600-73243-3	SRB - VS - 3	Total/NA	Solid	6010B	106339
600-73243-4	SRB - VS - 4	Total/NA	Solid	6010B	106339
600-73243-5	SRB - VS - 5	Total/NA	Solid	6010B	106339
600-73243-6	SRB - VS - 6	Total/NA	Solid	6010B	106339
600-73243-7	SRB - VS - 7	Total/NA	Solid	6010B	106339
600-73243-8	SRB - VS - 8	Total/NA	Solid	6010B	106339
600-73243-8 DU	SRB - VS - 8	Total/NA	Solid	6010B	106339
600-73243-8 MS	SRB - VS - 8	Total/NA	Solid	6010B	106339
600-73243-8 MSD	SRB - VS - 8	Total/NA	Solid	6010B	106339
600-73243-9	SRB - VS - 9	Total/NA	Solid	6010B	106339
600-73243-10	SRB - VS - 10	Total/NA	Solid	6010B	106339
600-73243-11	SRB - VS - 11	Total/NA	Solid	6010B	106339
LCSSRM 600-106339/2-A	Lab Control Sample	Total/NA	Solid	6010B	106339
MB 600-106339/1-A	Method Blank	Total/NA	Solid	6010B	106339

General Chemistry

Analysis Batch: 106335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73243-1	SRB - VS - 1	Total/NA	Solid	Moisture	
600-73243-2	SRB - VS - 2	Total/NA	Solid	Moisture	
600-73243-3	SRB - VS - 3	Total/NA	Solid	Moisture	
600-73243-4	SRB - VS - 4	Total/NA	Solid	Moisture	
600-73243-5	SRB - VS - 5	Total/NA	Solid	Moisture	
600-73243-5 DU	SRB - VS - 5	Total/NA	Solid	Moisture	
600-73243-6	SRB - VS - 6	Total/NA	Solid	Moisture	
600-73243-7	SRB - VS - 7	Total/NA	Solid	Moisture	
600-73243-8	SRB - VS - 8	Total/NA	Solid	Moisture	
600-73243-9	SRB - VS - 9	Total/NA	Solid	Moisture	

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

General Chemistry (Continued)

Analysis Batch: 106335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73243-10	SRB - VS - 10	Total/NA	Solid	Moisture	
600-73243-11	SRB - VS - 11	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Client Sample ID: SRB - VS - 1

Lab Sample ID: 600-73243-1

Date Collected: 05/15/13 10:30
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 17:47	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 2

Lab Sample ID: 600-73243-2

Date Collected: 05/15/13 10:40
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 17:50	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 3

Lab Sample ID: 600-73243-3

Date Collected: 05/15/13 10:50
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 17:52	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 4

Lab Sample ID: 600-73243-4

Date Collected: 05/15/13 11:00
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 17:55	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 5

Lab Sample ID: 600-73243-5

Date Collected: 05/15/13 11:10
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 17:57	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Client Sample ID: SRB - VS - 6

Lab Sample ID: 600-73243-6

Date Collected: 05/15/13 11:20
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:00	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 7

Lab Sample ID: 600-73243-7

Date Collected: 05/15/13 11:30
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:02	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 8

Lab Sample ID: 600-73243-8

Date Collected: 05/15/13 11:40
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:05	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 9

Lab Sample ID: 600-73243-9

Date Collected: 05/15/13 11:50
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Client Sample ID: SRB - VS - 10

Lab Sample ID: 600-73243-10

Date Collected: 05/15/13 11:55
Matrix: Solid
Date Received: 05/16/13 08:41
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:24	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Client Sample ID: SRB - VS - 11
Date Collected: 05/15/13 12:00
Date Received: 05/16/13 08:41

Lab Sample ID: 600-73243-11
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106339	05/17/13 11:34	NER	TAL HOU
Total/NA	Analysis	6010B		1	106370	05/17/13 18:27	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106335	05/17/13 10:56	KRD	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Shooting Berm- Former Op Plant

TestAmerica Job ID: 600-73243-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Pastor Behling & Wheeler	Eric Pastor	5/15/13	225423
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
2201 Double Creek Dr Ste 400F	(512) 671-3434		
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Round Rock	TX	78664	T. Jennings	
Project Name and Location (State)	**Carrier/Waybill Number**	
Shooting Berm - Former Op Plant		
Contract/Purchase Order/Quote No.	
1755	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Total Lead	Total Cadmium
SRB-VS-1	5/15/13	1030				X	1						X	X
SRB-VS-2		1040				X	1						X	X
SRB-VS-3		1050				X	1						X	X
SRB-VS-4		1100				X	1						X	X
SRB-VS-5		1110				X	1						X	X
SRB-VS-6		1120				X	1						X	X
SRB-VS-7		1130				X	1						X	X
SRB-VS-8		1140				X	1						X	X
SRB-VS-9		1150				X	1						X	X
SRB-VS-10		1155				X	1						X	X
SRB-VS-11		1200				X	1						X	X

Special Instructions/ Conditions of Receipt

600-73243 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		5/15/13	1410		5/15/13	1410
2.		5/15/13	1700			
3.					05/16/13	0841

Comments
Email results to Eric Pastor, Will Viene, and tim.jennings@pbwllc.com

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/3/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-73243-1

Login Number: 73243

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-73545-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/4/2013 7:49:53 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 12
Method Summary 13
Sample Summary 14
Client Sample Results 15
Definitions/Glossary 19
QC Sample Results 20
Default Detection Limits 22
QC Association Summary 23
Lab Chronicle 25
Certification Summary 28
Chain of Custody 29
Receipt Checklists 31

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-73545-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/04/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: BDG	Prep Batch Number(s): 107046 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: BDG	Prep Batch Number(s): 107046 - pH

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/30/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: BDG	Prep Batch Number(s): 107046 - pH

ER #[1]	DESCRIPTION
1	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.
2	The laboratory selected a sample from another group to perform as the DUP.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: TWR	Prep Batch Number(s): 600-106792(s), 106828(w)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?		X			2
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			3
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: TWR	Prep Batch Number(s): 600-106792(s), 106828(w)- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-73545
Reviewer Name: TWR	Prep Batch Number(s): 600-106792(s), 106828(w)- ICP

ER #[1]	DESCRIPTION
1	The lead recovery in sample 73545-9 MSD was above acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
2	The lead RPD between samples 73545-9 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
3	The lead RPD between samples 73545-9 and 73545-9 MD was above acceptance limits due to the non-homogenous nature of the samples.
4	The lead SDL was elevated in samples 73545-10, 13 and 16 due to the dilutions necessary to bring this analyte to within linear dynamic range.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Detection Check Standard

Matrix:	Water
Method:	200.7/6010
Preparation:	200.7P/3010
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALs Batches:	102868, 102755p
Units:	mg/L

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.006	0.02	0.0177	0.5
Antimony	0.0063	0.01	0.0105	0.05
Arsenic	0.0033	0.01	0.0077	0.01
Barium	0.0022	0.005	0.0026	0.02
Beryllium	0.00134	0.002	0.0042	0.005
Boron	0.0077	0.02	0.0193	0.2
Cadmium	0.00073	0.001	0.001	0.005
Calcium	0.022	0.05	0.0583	1
Chromium	0.0016	0.002	0.0037	0.01
Cobalt	0.00063	0.001	0.0012	0.01
Copper	0.0014	0.002	0.0012	0.01
Iron	0.087	0.1	0.1011	0.4
Lithium	0.0024	0.005	0.0043	0.2
Lead	0.0029	0.005	0.005	0.01
Selenium	0.0042	0.01	0.0083	0.04
Manganese	0.00084	0.002	0.002	0.01
Molybdenum	0.0027	0.005	0.0048	0.01
Nickel	0.00179	0.005	0.0043	0.01
Silver	0.0012	0.0025	0.0024	0.01
Sodium	0.02	0.05	0.0465	1
Strontium	0.0005	0.001	0.001	0.005
Thallium	0.0078	0.02	0.0184	0.03
Tin	0.0028	0.005	0.0049	0.01
Titanium	0.0011	0.002	0.0023	0.01
Vanadium	0.0017	0.002	0.0048	0.01
Zinc	0.0022	0.005	0.0065	0.01

Job ID: 600-73545-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-73545-1

Comments
No additional comments.

Receipt
The samples were received on 5/23/2013 9:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.4° C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-73545-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
9045C	pH	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-73545-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-73545-1	2012-FWFS-7A (0-0.5)	Solid	05/21/13 11:27	05/23/13 09:49
600-73545-9	MW-31R (0.9-2)	Solid	05/21/13 12:14	05/23/13 09:49
600-73545-10	MW-31R (5.8-7.3)	Solid	05/21/13 12:30	05/23/13 09:49
600-73545-11	MW-31R (9.5)	Solid	05/21/13 12:31	05/23/13 09:49
600-73545-12	Dup 19	Solid	05/21/13 00:00	05/23/13 09:49
600-73545-13	2013-BB-1 (0.9-2)	Solid	05/21/13 12:50	05/23/13 09:49
600-73545-16	2013-RRS-4A (0.9-2)	Solid	05/21/13 13:22	05/23/13 09:49
600-73545-18	SRB-VS-9 (0.5-2)	Solid	05/21/13 13:50	05/23/13 09:49
600-73545-21	SRB-VS-9A (0-0.5)	Solid	05/21/13 14:05	05/23/13 09:49
600-73545-22	SRB-VS-9B (0-0.5)	Solid	05/21/13 14:00	05/23/13 09:49
600-73545-23	EB (05212013)	Water	05/21/13 16:25	05/23/13 09:49

Client Sample ID: 2012-FWFS-7A (0-0.5)

Lab Sample ID: 600-73545-1

Date Collected: 05/21/13 11:27
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 84.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.320		0.272	0.0279	mg/Kg	☼	05/23/13 12:51	05/23/13 21:22	1
Lead	44.7		0.543	0.114	mg/Kg	☼	05/23/13 12:51	05/23/13 21:22	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	84		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: MW-31R (0.9-2)

Lab Sample ID: 600-73545-9

Date Collected: 05/21/13 12:14
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 85.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0737	J	0.284	0.0291	mg/Kg	☼	05/23/13 12:51	05/23/13 21:25	1
Lead	18.3		0.567	0.119	mg/Kg	☼	05/23/13 12:51	05/23/13 21:25	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.68		0.0100	0.0100	SU			05/28/13 15:00	1
Percent Moisture	14		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	86		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: MW-31R (5.8-7.3)

Lab Sample ID: 600-73545-10

Date Collected: 05/21/13 12:30
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 85.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.80		0.280	0.0287	mg/Kg	☼	05/23/13 12:51	05/23/13 21:34	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3150		5.60	1.17	mg/Kg	☼	05/23/13 12:51	05/24/13 10:20	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.17		0.0100	0.0100	SU			05/28/13 15:00	1
Percent Moisture	15		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	85		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: MW-31R (9.5)

Lab Sample ID: 600-73545-11

Date Collected: 05/21/13 12:31
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 74.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.288	J	0.313	0.0321	mg/Kg	☼	05/23/13 12:51	05/23/13 21:36	1
Lead	35.4		0.625	0.131	mg/Kg	☼	05/23/13 12:51	05/23/13 21:36	1

Client Sample ID: MW-31R (9.5)

Lab Sample ID: 600-73545-11

Date Collected: 05/21/13 12:31
Matrix: Solid
Date Received: 05/23/13 09:49

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.15		0.0100	0.0100	SU			05/28/13 15:00	1
Percent Moisture	25		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	75		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: Dup 19

Lab Sample ID: 600-73545-12

Date Collected: 05/21/13 00:00
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0397	J	0.283	0.0291	mg/Kg	☼	05/23/13 12:51	05/23/13 21:39	1
Lead	10.7		0.567	0.119	mg/Kg	☼	05/23/13 12:51	05/23/13 21:39	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.0100	0.0100	SU			05/28/13 15:00	1
Percent Moisture	13		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	87		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: 2013-BB-1 (0.9-2)

Lab Sample ID: 600-73545-13

Date Collected: 05/21/13 12:50
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 71.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	16.1		0.351	0.0360	mg/Kg	☼	05/23/13 12:51	05/23/13 21:41	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3960		7.01	1.47	mg/Kg	☼	05/23/13 12:51	05/24/13 10:22	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.15		0.0100	0.0100	SU			05/28/13 15:00	1
Percent Moisture	29		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	71		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: 2013-RRS-4A (0.9-2)

Lab Sample ID: 600-73545-16

Date Collected: 05/21/13 13:22
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	18.2		0.285	0.0293	mg/Kg	☼	05/23/13 12:51	05/23/13 21:51	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5540		5.70	1.20	mg/Kg	☼	05/23/13 12:51	05/24/13 10:25	10

Client Sample ID: 2013-RRS-4A (0.9-2)

Lab Sample ID: 600-73545-16

Date Collected: 05/21/13 13:22
Matrix: Solid
Date Received: 05/23/13 09:49

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	84		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: SRB-VS-9 (0.5-2)

Lab Sample ID: 600-73545-18

Date Collected: 05/21/13 13:50
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 82.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0522	J	0.290	0.0297	mg/Kg	☼	05/23/13 12:51	05/23/13 21:53	1
Lead	14.8		0.580	0.122	mg/Kg	☼	05/23/13 12:51	05/23/13 21:53	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	82		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: SRB-VS-9A (0-0.5)

Lab Sample ID: 600-73545-21

Date Collected: 05/21/13 14:05
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	6.58		0.281	0.0288	mg/Kg	☼	05/23/13 12:51	05/23/13 21:56	1
Lead	1040		0.562	0.118	mg/Kg	☼	05/23/13 12:51	05/23/13 21:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	86		1.0	1.0	%			05/23/13 13:46	1

Client Sample ID: SRB-VS-9B (0-0.5)

Lab Sample ID: 600-73545-22

Date Collected: 05/21/13 14:00
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.39		0.273	0.0280	mg/Kg	☼	05/23/13 12:51	05/23/13 21:58	1
Lead	305		0.546	0.115	mg/Kg	☼	05/23/13 12:51	05/23/13 21:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		1.0	1.0	%			05/23/13 13:46	1
Percent Solids	84		1.0	1.0	%			05/23/13 13:46	1

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-73545-1

Client Sample ID: EB (05212013)
Date Collected: 05/21/13 16:25
Date Received: 05/23/13 09:49

Lab Sample ID: 600-73545-23
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000350	U	0.00500	0.000350	mg/L		05/23/13 17:05	05/24/13 12:35	1
Lead	0.00290	U	0.0100	0.00290	mg/L		05/23/13 17:05	05/24/13 12:35	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
F	Duplicate RPD exceeds the control limit
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
N	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-106792/1-A
Matrix: Solid
Analysis Batch: 106839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106792

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		05/23/13 12:51	05/23/13 20:48	1
Lead	0.105	U	0.500	0.105	mg/Kg		05/23/13 12:51	05/23/13 20:48	1

Lab Sample ID: LCSSRM 600-106792/2-A
Matrix: Solid
Analysis Batch: 106839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106792

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	108.1		mg/Kg		105.0	83.6 - 115.5
Lead	76.9	84.45		mg/Kg		109.8	81.3 - 118.7

Lab Sample ID: 600-73545-9 MS
Matrix: Solid
Analysis Batch: 106839

Client Sample ID: MW-31R (0.9-2)
Prep Type: Total/NA
Prep Batch: 106792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0737	J	28.3	26.05		mg/Kg	☼	92	75 - 125
Lead	18.3		56.7	77.66		mg/Kg	☼	105	75 - 125

Lab Sample ID: 600-73545-9 MSD
Matrix: Solid
Analysis Batch: 106839

Client Sample ID: MW-31R (0.9-2)
Prep Type: Total/NA
Prep Batch: 106792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.0737	J	27.8	25.67		mg/Kg	☼	92	75 - 125	1	20
Lead	18.3		55.6	148.8	N	mg/Kg	☼	235	75 - 125	63	20

Lab Sample ID: 600-73545-9 DU
Matrix: Solid
Analysis Batch: 106839

Client Sample ID: MW-31R (0.9-2)
Prep Type: Total/NA
Prep Batch: 106792

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.0737	J	0.09195	J	mg/Kg	☼	22	20
Lead	18.3		29.42	F	mg/Kg	☼	47	20

Lab Sample ID: MB 600-106828/1-A
Matrix: Water
Analysis Batch: 106863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 106828

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000350	U	0.00500	0.000350	mg/L		05/23/13 17:05	05/24/13 12:21	1
Lead	0.00290	U	0.0100	0.00290	mg/L		05/23/13 17:05	05/24/13 12:21	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 600-106828/2-A
Matrix: Water
Analysis Batch: 106863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 106828

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.5067		mg/L		101	80 - 120
Lead	1.00	0.9608		mg/L		96	80 - 120

Method: 9045C - pH

Lab Sample ID: LCS 600-107046/1
Matrix: Solid
Analysis Batch: 107046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99 - 101

Method: Moisture - Percent Moisture

Lab Sample ID: 600-73545-12 DU
Matrix: Solid
Analysis Batch: 106806

Client Sample ID: Dup 19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13		13		%		2	20
Percent Solids	87		87		%		0.3	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-73545-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Cadmium	0.00500	0.000350	mg/L	6010B
Lead	0.500	0.105	mg/Kg	6010B
Lead	0.0100	0.00290	mg/L	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
pH	0.0100	0.0100	SU	9045C
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

Metals

Prep Batch: 106792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-1	2012-FWFS-7A (0-0.5)	Total/NA	Solid	3050B	
600-73545-9	MW-31R (0.9-2)	Total/NA	Solid	3050B	
600-73545-9 DU	MW-31R (0.9-2)	Total/NA	Solid	3050B	
600-73545-9 MS	MW-31R (0.9-2)	Total/NA	Solid	3050B	
600-73545-9 MSD	MW-31R (0.9-2)	Total/NA	Solid	3050B	
600-73545-10	MW-31R (5.8-7.3)	Total/NA	Solid	3050B	
600-73545-10 - DL	MW-31R (5.8-7.3)	Total/NA	Solid	3050B	
600-73545-11	MW-31R (9.5)	Total/NA	Solid	3050B	
600-73545-12	Dup 19	Total/NA	Solid	3050B	
600-73545-13	2013-BB-1 (0.9-2)	Total/NA	Solid	3050B	
600-73545-13 - DL	2013-BB-1 (0.9-2)	Total/NA	Solid	3050B	
600-73545-16	2013-RRS-4A (0.9-2)	Total/NA	Solid	3050B	
600-73545-16 - DL	2013-RRS-4A (0.9-2)	Total/NA	Solid	3050B	
600-73545-18	SRB-VS-9 (0.5-2)	Total/NA	Solid	3050B	
600-73545-21	SRB-VS-9A (0-0.5)	Total/NA	Solid	3050B	
600-73545-22	SRB-VS-9B (0-0.5)	Total/NA	Solid	3050B	
LCSSRM 600-106792/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-106792/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 106828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-23	EB (05212013)	Total/NA	Water	3010A	
LCS 600-106828/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 600-106828/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 106839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-1	2012-FWFS-7A (0-0.5)	Total/NA	Solid	6010B	106792
600-73545-9	MW-31R (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-9 DU	MW-31R (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-9 MS	MW-31R (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-9 MSD	MW-31R (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-10	MW-31R (5.8-7.3)	Total/NA	Solid	6010B	106792
600-73545-11	MW-31R (9.5)	Total/NA	Solid	6010B	106792
600-73545-12	Dup 19	Total/NA	Solid	6010B	106792
600-73545-13	2013-BB-1 (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-16	2013-RRS-4A (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-18	SRB-VS-9 (0.5-2)	Total/NA	Solid	6010B	106792
600-73545-21	SRB-VS-9A (0-0.5)	Total/NA	Solid	6010B	106792
600-73545-22	SRB-VS-9B (0-0.5)	Total/NA	Solid	6010B	106792
LCSSRM 600-106792/2-A	Lab Control Sample	Total/NA	Solid	6010B	106792
MB 600-106792/1-A	Method Blank	Total/NA	Solid	6010B	106792

Analysis Batch: 106863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-10 - DL	MW-31R (5.8-7.3)	Total/NA	Solid	6010B	106792
600-73545-13 - DL	2013-BB-1 (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-16 - DL	2013-RRS-4A (0.9-2)	Total/NA	Solid	6010B	106792
600-73545-23	EB (05212013)	Total/NA	Water	6010B	106828
LCS 600-106828/2-A	Lab Control Sample	Total/NA	Water	6010B	106828
MB 600-106828/1-A	Method Blank	Total/NA	Water	6010B	106828

General Chemistry

Analysis Batch: 106806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-1	2012-FWFS-7A (0-0.5)	Total/NA	Solid	Moisture	
600-73545-9	MW-31R (0.9-2)	Total/NA	Solid	Moisture	
600-73545-9 MS	MW-31R (0.9-2)	Total/NA	Solid	Moisture	
600-73545-9 MSD	MW-31R (0.9-2)	Total/NA	Solid	Moisture	
600-73545-10	MW-31R (5.8-7.3)	Total/NA	Solid	Moisture	
600-73545-11	MW-31R (9.5)	Total/NA	Solid	Moisture	
600-73545-12	Dup 19	Total/NA	Solid	Moisture	
600-73545-12 DU	Dup 19	Total/NA	Solid	Moisture	
600-73545-13	2013-BB-1 (0.9-2)	Total/NA	Solid	Moisture	
600-73545-16	2013-RRS-4A (0.9-2)	Total/NA	Solid	Moisture	
600-73545-18	SRB-VS-9 (0.5-2)	Total/NA	Solid	Moisture	
600-73545-21	SRB-VS-9A (0-0.5)	Total/NA	Solid	Moisture	
600-73545-22	SRB-VS-9B (0-0.5)	Total/NA	Solid	Moisture	

Analysis Batch: 107046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-73545-9	MW-31R (0.9-2)	Total/NA	Solid	9045C	
600-73545-10	MW-31R (5.8-7.3)	Total/NA	Solid	9045C	
600-73545-11	MW-31R (9.5)	Total/NA	Solid	9045C	
600-73545-12	Dup 19	Total/NA	Solid	9045C	
600-73545-13	2013-BB-1 (0.9-2)	Total/NA	Solid	9045C	
LCS 600-107046/1	Lab Control Sample	Total/NA	Solid	9045C	

Client Sample ID: 2012-FWFS-7A (0-0.5)

Lab Sample ID: 600-73545-1

Date Collected: 05/21/13 11:27
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU

Client Sample ID: MW-31R (0.9-2)

Lab Sample ID: 600-73545-9

Date Collected: 05/21/13 12:14
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:25	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU
Total/NA	Analysis	9045C		1	107046	05/28/13 15:00	MB	TAL HOU

Client Sample ID: MW-31R (5.8-7.3)

Lab Sample ID: 600-73545-10

Date Collected: 05/21/13 12:30
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:34	DCL	TAL HOU
Total/NA	Prep	3050B	DL		106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	106863	05/24/13 10:20	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU
Total/NA	Analysis	9045C		1	107046	05/28/13 15:00	MB	TAL HOU

Client Sample ID: MW-31R (9.5)

Lab Sample ID: 600-73545-11

Date Collected: 05/21/13 12:31
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:36	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU
Total/NA	Analysis	9045C		1	107046	05/28/13 15:00	MB	TAL HOU

Client Sample ID: Dup 19

Lab Sample ID: 600-73545-12

Date Collected: 05/21/13 00:00
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU

Client Sample ID: Dup 19

Lab Sample ID: 600-73545-12

Date Collected: 05/21/13 00:00
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	106839	05/23/13 21:39	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU
Total/NA	Analysis	9045C		1	107046	05/28/13 15:00	MB	TAL HOU

Client Sample ID: 2013-BB-1 (0.9-2)

Lab Sample ID: 600-73545-13

Date Collected: 05/21/13 12:50
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:41	DCL	TAL HOU
Total/NA	Prep	3050B	DL		106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	106863	05/24/13 10:22	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU
Total/NA	Analysis	9045C		1	107046	05/28/13 15:00	MB	TAL HOU

Client Sample ID: 2013-RRS-4A (0.9-2)

Lab Sample ID: 600-73545-16

Date Collected: 05/21/13 13:22
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:51	DCL	TAL HOU
Total/NA	Prep	3050B	DL		106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B	DL	10	106863	05/24/13 10:25	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU

Client Sample ID: SRB-VS-9 (0.5-2)

Lab Sample ID: 600-73545-18

Date Collected: 05/21/13 13:50
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:53	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU

Client Sample ID: SRB-VS-9A (0-0.5)

Lab Sample ID: 600-73545-21

Date Collected: 05/21/13 14:05
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-73545-1

Client Sample ID: SRB-VS-9A (0-0.5)

Lab Sample ID: 600-73545-21

Date Collected: 05/21/13 14:05
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	106839	05/23/13 21:56	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU

Client Sample ID: SRB-VS-9B (0-0.5)

Lab Sample ID: 600-73545-22

Date Collected: 05/21/13 14:00
Matrix: Solid
Date Received: 05/23/13 09:49
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			106792	05/23/13 12:51	NER	TAL HOU
Total/NA	Analysis	6010B		1	106839	05/23/13 21:58	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	106806	05/23/13 13:46	MB	TAL HOU

Client Sample ID: EB (05212013)

Lab Sample ID: 600-73545-23

Date Collected: 05/21/13 16:25
Matrix: Water
Date Received: 05/23/13 09:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			106828	05/23/13 17:05	NER	TAL HOU
Total/NA	Analysis	6010B		1	106863	05/24/13 12:35	DCL	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
TestAmerica Job ID: 600-73545-1
Project/Site: Exide Recycling Center, Frisco TX Projec

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-12 *
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

* Expired certification is currently pending renewal and is considered valid.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

600-73545 Chain of Custody

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TAL-4124 (1007)

Client: Pastor, Behling & Wheeler	Project Manager: Will Vienne	Date: 5/21/13	Chain of Custody Number: 239011
Address: 2201 Double Creek Dr. #400f	Telephone Number (Area Code)/Fax Number: (512) 671-3434	Lab Number:	Page 1 of 2
City: Round Rock / State: TX / Zip Code: 78664	Site Contact: R. Russell	Lab Contact:	
Project Name and Location (State): Exide FRC, Frisco, TX	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	#TCL	Analysis: Pb, Cd	pH	MS/MSD	Special Instructions/ Conditions of Receipt
2012-FWFS-7A(0-0.5)	5/21/13	1127				X							1	X			
2012-FWFS-7A(0.5-2)		1128											1				Hold
2012-FWFS-7A(2-3)		1129											1				Hold
2012-FWFS-7A(4-5)		1130											1				Hold
2012-FWFS-7B(0-0.5)		1138											1				Hold
2012-FWFS-7B(0.5-2)		1139											1				Hold
2012-FWFS-7B(2-3)		1140											1				Hold
2012-FWFS-7B(4-5)		1141											1				Hold
MW-31R(0.9-2)		1214											1	X	X	X	
MW-31R(5.8-7.3)		1230											1				
MW-31R(9.5)		1231											1				
Dup 19		—											1				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By	Date: 5/22/13	Time: 1100	1. Received By	Date: 5/22/13	Time: 1100
2. Relinquished By	Date: 5/22/13	Time: 1730	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date: 05/23/13	Time: 0949

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/4/2013

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

Client	Project Manager	Date	Chain of Custody Number
Pastor, Behling & Wheeler	Will Vienne	5/21/13	239012
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2201 Double Creek Dr. #1404	(512)671-3434		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Round Rock / TX / 78664	R. Russell		
Project Name and Location (State)	**Carrier/Waybill Number**		
Eagle FRC, Frisco, TX			
Contract/Purchase Order/Quote No.			
1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TCE	Pb'd	pH	Special Instructions/ Conditions of Receipt
2013-BB-1 (0.9-2)	5/21/13	1250				X							1	X	X	
2013-BB-1 (2-3)		1254											1		X	Hold
2013-BB-1 (4-5)		1259											1		X	Hold
2013-RRS-4A (0.9-2)		1322											1			
2013-RRS-4A (2-3)		1324											1			Hold
SRB-VS-9 (0.5-2)		1350											1			
SRB-VS-9 (2-4)		1351											1			Hold
SRB-VS-9 (4-5)		1352											1			Hold
SRB-VS-9A (0-0.5)		1405											1			
SRB-VS-9B (0-0.5)		1400											1			
EB (05212013)		1625		X					1							

Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By	5/22/13	1100
2. Relinquished By	5/22/13	1730
3. Relinquished By		

	Date	Time
1. Received By	5/22/13	1100
2. Received By		
3. Received By	05/23/13	0949

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/4/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-73545-1

Login Number: 73545

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-74152-1
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:
Pastor, Behling & Wheeler LLC
2201 Double Creek Dr
Suite 4004
Round Rock, Texas 78664

Attn: Eric Pastor

Authorized for release by:
6/18/2013 5:14:14 PM
Cathy Upton, Data Delivery Analyst
(713)690-4444
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar, Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
TRRP Cover Page 3
TRRP Checklists & DCSs 4
Case Narrative 8
Method Summary 9
Sample Summary 10
Client Sample Results 11
Definitions/Glossary 12
QC Sample Results 13
Default Detection Limits 14
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 19

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-74152-1

Project Name/Number: Exide Recycling Center, Frisco TX Project

This Data Package- consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/18/2013
Name (printed)	Signature	Date
Data Delivery Analyst		
Official Title (printed)		

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-74152
Reviewer Name: TWR	Prep Batch Number(s): 600-107843- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 06/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-74152
Reviewer Name: TWR	Prep Batch Number(s): 600-107843- ICP

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 06/17/13
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-74152
Reviewer Name: TWR	Prep Batch Number(s): 600-107843- ICP

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.
2	The laboratory selected a sample from another group to perform as the DUP.
3	The laboratory selected a sample from another group to perform as the PDS and SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	6010B
Preparation:	3050
Date Analyzed:	3/29/2013
Date Prepared:	3/28/2013
Instrument:	Thermo 6500
TALS Batches:	102868, 102784p
Prep/Reagent Factor =	50
Units:	mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.98	25
Antimony	0.231553	0.45	0.485	2.5
Arsenic	0.217923	0.5	0.465	1
Barium	0.011322	0.03	0.095	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	0.74	20
Cadmium	0.025642	0.05	0.055	0.25
Calcium	0.86399	1.5	2.825	100
Chromium	0.050606	0.1	0.075	0.5
Cobalt	0.067622	0.1	0.115	0.5
Copper	0.173703	0.5	0.455	0.5
Iron	2.534007	4	3.86	20
Lead	0.104832	0.2	0.22	0.5
Selenium	0.258884	0.5	0.535	2
Manganese	0.038111	0.05	0.045	1.5
Molybdenum	0.136448	0.35	0.32	0.5
Nickel	0.116599	0.15	0.135	1
Silver	0.118848	0.2	0.205	0.5
Sodium	0.885548	2.4	2.08	100
Strontium	0.00252	0.005	0.995	0.25
Thallium	0.276988	0.7	0.595	1.5
Tin	0.08729	0.15	0.155	1
Titanium	0.014529	0.03	0.025	0.5
Vanadium	0.079068	0.15	0.175	0.5
Zinc	0.108432	0.2	0.33	1.5

Job ID: 600-74152-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-74152-1

Comments
No additional comments.

Receipt
The samples were received on 6/5/2013 9:47 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 22.2º C.

Method Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-74152-1	SRB - VS - 9C	Solid	06/03/13 14:50	06/05/13 09:47
600-74152-2	SB - VS - 1	Solid	06/03/13 15:05	06/05/13 09:47
600-74152-3	SB - VS - 2	Solid	06/03/13 15:10	06/05/13 09:47

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Client Sample ID: SRB - VS - 9C

Lab Sample ID: 600-74152-1

Date Collected: 06/03/13 14:50
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 84.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.81		0.281	0.0288	mg/Kg	☼	06/06/13 12:58	06/06/13 19:55	1
Lead	333		0.562	0.118	mg/Kg	☼	06/06/13 12:58	06/06/13 19:55	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			06/05/13 13:12	1
Percent Solids	85		1.0	1.0	%			06/05/13 13:12	1

Client Sample ID: SB - VS - 1

Lab Sample ID: 600-74152-2

Date Collected: 06/03/13 15:05
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 85.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.20		0.282	0.0289	mg/Kg	☼	06/06/13 12:58	06/06/13 19:57	1
Lead	6.10		0.564	0.118	mg/Kg	☼	06/06/13 12:58	06/06/13 19:57	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		1.0	1.0	%			06/05/13 13:12	1
Percent Solids	85		1.0	1.0	%			06/05/13 13:12	1

Client Sample ID: SB - VS - 2

Lab Sample ID: 600-74152-3

Date Collected: 06/03/13 15:10
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 83.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.13		0.297	0.0304	mg/Kg	☼	06/06/13 12:58	06/06/13 20:00	1
Lead	12.9		0.593	0.124	mg/Kg	☼	06/06/13 12:58	06/06/13 20:00	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		1.0	1.0	%			06/05/13 13:12	1
Percent Solids	83		1.0	1.0	%			06/05/13 13:12	1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-107843/1-A
Matrix: Solid
Analysis Batch: 107851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107843

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0256	U	0.250	0.0256	mg/Kg		06/06/13 12:58	06/06/13 18:50	1
Lead	0.105	U	0.500	0.105	mg/Kg		06/06/13 12:58	06/06/13 18:50	1

Lab Sample ID: LCSSRM 600-107843/2-A
Matrix: Solid
Analysis Batch: 107851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107843

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	103	98.99		mg/Kg		96.1	83.6 - 115.5
Lead	76.9	76.11		mg/Kg		99.0	81.3 - 118.7

Method: Moisture - Percent Moisture

Lab Sample ID: 600-74152-1 DU
Matrix: Solid
Analysis Batch: 107711

Client Sample ID: SRB - VS - 9C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15		16		%		2	20
Percent Solids	85		84		%		0.3	20

Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Cadmium	0.250	0.0256	mg/Kg	6010B
Lead	0.500	0.105	mg/Kg	6010B

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Metals

Prep Batch: 107843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-74152-1	SRB - VS - 9C	Total/NA	Solid	3050B	
600-74152-2	SB - VS - 1	Total/NA	Solid	3050B	
600-74152-3	SB - VS - 2	Total/NA	Solid	3050B	
LCSSRM 600-107843/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 600-107843/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 107851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-74152-1	SRB - VS - 9C	Total/NA	Solid	6010B	107843
600-74152-2	SB - VS - 1	Total/NA	Solid	6010B	107843
600-74152-3	SB - VS - 2	Total/NA	Solid	6010B	107843
LCSSRM 600-107843/2-A	Lab Control Sample	Total/NA	Solid	6010B	107843
MB 600-107843/1-A	Method Blank	Total/NA	Solid	6010B	107843

General Chemistry

Analysis Batch: 107711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-74152-1	SRB - VS - 9C	Total/NA	Solid	Moisture	
600-74152-1 DU	SRB - VS - 9C	Total/NA	Solid	Moisture	
600-74152-2	SB - VS - 1	Total/NA	Solid	Moisture	
600-74152-3	SB - VS - 2	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Client Sample ID: SRB - VS - 9C

Lab Sample ID: 600-74152-1

Date Collected: 06/03/13 14:50
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			107843	06/06/13 12:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	107851	06/06/13 19:55	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	107711	06/05/13 13:12	AS	TAL HOU

Client Sample ID: SB - VS - 1

Lab Sample ID: 600-74152-2

Date Collected: 06/03/13 15:05
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			107843	06/06/13 12:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	107851	06/06/13 19:57	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	107711	06/05/13 13:12	AS	TAL HOU

Client Sample ID: SB - VS - 2

Lab Sample ID: 600-74152-3

Date Collected: 06/03/13 15:10
Matrix: Solid
Date Received: 06/05/13 09:47
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			107843	06/06/13 12:58	NER	TAL HOU
Total/NA	Analysis	6010B		1	107851	06/06/13 20:00	DCL	TAL HOU
Total/NA	Analysis	Moisture		1	107711	06/05/13 13:12	AS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: Pastor, Behling & Wheeler LLC
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-74152-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-13
Louisiana	NELAP	6	01967	06-30-13
Oklahoma	State Program	6	9503	08-31-13
Texas	NELAP	6	T104704223-10-6-TX	10-31-13
USDA	Federal		P330-08-00217	04-01-14
Utah	NELAP	8	GULF	10-31-13

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: PBW	Project Manager: Eric Pastor	Date: 6/3/13	Chain of Custody Number: 239019
Address: 2201 Double Creek Dr	Telephone Number (Area Code)/Fax Number: (512) 671-3434	Lab Number:	Page 1 of 1
City: Round Rock / State: TX / Zip Code: 78620	Site Contact: T. Jennings	Lab Contact:	
Project Name and Location (State): Exide Former Op Plant (South Berm)	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 1755			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Total Pb 6010C	Special Instructions/ Conditions of Receipt
SRB-VS-QC	6/3/13	1450				X	1						X	
SB-VS-1	6/3/13	1505				X	1						X	
SB-VS-2	6/3/13	1510				X	1						X	

600-74152 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	6/3/13	1700	1. Received By	6/4/13	1224
2. Relinquished By	6/4/13	1700	2. Received By	06/05/13	0947
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6/18/2013

Login Sample Receipt Checklist

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-74152-1

Login Number: 74152

List Source: TestAmerica Houston

List Number: 1

Creator: Pulumbarit, Josh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	