



REPORT

2023 First Semiannual Groundwater Monitoring Report

Class 2 Landfill North CAMU - 1st and 2nd Quarter Events

Frisco Community Development Corporation Site

7471 Old 5th Street, Frisco, Texas, TCEQ SWR No. 30516

Submitted to:

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1.0 INTRODUCTION

WSP USA Inc. (WSP), is pleased to submit this report summarizing first and second quarter 2023 groundwater monitoring activities for the Class 2 Landfill North Corrective Action Management Unit (hereafter, the Landfill or North CAMU) located at the Frisco Community Development Corporation (Frisco CDC) Site located at 7471 Old 5th Street, Frisco, Collin County, Texas (Site). This report summarizes groundwater sampling methods, laboratory analyses and results for groundwater monitoring which was conducted in general accordance with the Revised Class 2 Landfill Groundwater Monitoring Plan (Monitoring Plan), by Pastor, Behling & Wheeler, dated July 31, 2013 [1], the Texas Commission on Environmental Quality (TCEQ) Approval with Modifications, dated April 4, 2014 [2] and subsequent correspondence with the TCEQ. The Site is currently regulated by the TCEQ Industrial and Hazardous Waste – Corrective Action (IHW-CA) Program under Solid Waste Registration (SWR) No. 30516.

1.1 Site Description

A location map of the Landfill is provided as Figure 1. The locations of the groundwater monitoring wells in the Landfill vicinity are shown on Figure 2. Initial notification for construction of an on-site Class 2 industrial landfill, including engineering plans and a landfill operations plan, was provided to the Texas Natural Resource Conservation Commission (TNRCC) by GNB Technologies, Inc. in August 1995. TNRCC acknowledgement of receipt and review of the notification was provided in a September 14, 1995, letter. Landfill construction commenced thereafter, and Site records indicate that the Landfill operations began in 1996. The Landfill currently consists of fifteen cells, nine of which (cells 1 through 9) have been closed and capped. The closed cells of the Landfill consist of treated slag monofills [1]. The active cells of the Landfill currently contain treated slag, but also contain Class 2 wastes generated during the demolition and remediation activities at the Site [1] and remediation activities at the Undeveloped Buffer Property (UBP) initiated in early 2017. In June 2018, a temporary cover was installed at the Landfill following completion of remediation activities at the UBP.

1.2 Uppermost Groundwater-Bearing Unit

The uppermost groundwater bearing unit (GWBU) in the vicinity of the Landfill consists of clay-rich alluvial soils of Quaternary age situated unconformably above the Late Cretaceous age Eagle Ford Formation [1]. As indicated in boring logs for the groundwater monitoring wells surrounding the Landfill, the Eagle Ford Formation occurs at depths ranging from approximately 14 to 24 feet below ground surface (bgs). Groundwater within the upper GWBU generally occurs under unconfined conditions at depths between approximately 10 and 25 feet bgs. Monitoring well locations are shown on Figure 2.

1.3 Monitoring Well System

The current monitoring well network for the Landfill consists of eleven monitoring wells. Based on the groundwater potentiometric surfaces shown on Figure 3 and Figure 4 and the projected groundwater flow paths near the Landfill, the Landfill groundwater monitoring network can be classified as follows:

- Up-gradient monitoring wells: PMW-19R and MW-45
- Cross-gradient monitoring wells: LMW-8 and LMW-9R
- Down-gradient monitoring wells: LMW-5, LMW-17, PMW-20R, LMW-21, LMW-22, MW-41, and MW-47

Well construction information for these wells is summarized in Table 1 and Table 2.

2.0 FIELD SAMPLING ACTIVITIES

2.1 Groundwater Sampling

Eleven monitoring wells included in the Landfill monitoring well network, MW-45, PMW-19R, LMW-9R, LMW-8, LMW-17, LMW-22, LMW-5, LMW-21, PMW-20R, MW-41 and MW-47 were sampled during the first and second quarter sampling events during 2023.

Prior to sampling, monitoring wells were inspected and the condition of the protective covers, concrete pads, riser pipes and well caps were recorded on monitoring well inspection forms, which are included in Appendix A. Next, monitoring well depths to water and total well depths were noted on field forms which are summarized on Table 1 for the first quarter event and Table 2 for the second quarter event. The electronic water level probe was decontaminated with Alconox® solution and a distilled water rinse prior to use and between sampling at each monitoring well.

The monitoring wells were then purged until stabilization parameters (temperature, pH and specific conductivity) were within 10% on three consecutive readings or three well volumes had been removed from the monitoring well. Monitoring wells were purged using a peristaltic pump and new polyethylene tubing at each sample location. A flow rate of less than 0.4 liters per minute was sustained during purging. Groundwater sample collection forms are provided in Appendix B.

After purging was completed, groundwater samples were collected using a peristaltic pump with new polyethylene tubing. Groundwater sampled for dissolved metals analysis were field filtered using disposable (one-time use) 0.45-micron filters and transferred into laboratory-supplied containers pre-preserved with nitric acid. Groundwater sampled for total metals analysis was collected into laboratory-supplied containers pre-preserved with nitric acid directly from the pump discharge tubing. One duplicate sample and one matrix spike/matrix spike duplicate (MS/MSD) sample was collected for Quality Assurance/Quality Control (QA/QC) during the sampling events.

After collection in the field, groundwater and QA/QC samples were labeled with the sample identification number, requested analysis, collection date and sampler's initials and placed on ice in a cooler and shipped by WSP under chain-of-custody protocol via FedEx overnight transport to the ALS Environmental Laboratory (ALS) in Houston, Texas for analysis of dissolved and total metals by US Environmental Protection Agency (EPA) SW-846 Method 6020A and EPA SW-846 Method 7470A. Antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc were reported for the first quarter sampling event. Arsenic, cadmium, lead, and selenium were reported for the second quarter sampling event.

Purged groundwater and decontamination water were containerized in 55-gallon steel drums and staged as directed by Frisco CDC personnel. Approximately 18.65 gallons of purged groundwater were containerized during the quarterly sampling events, respectively. The monitoring wells were locked prior to demobilization from the Site.

2.2 Well Inspection and Purgung Summary

2.2.1 First Quarter Event (March 2023)

Each of the monitoring wells sampled at the Landfill were purged and sampled on either March 15 or March 16 as described in Section 2.1. Each monitoring well was found locked upon arrival. At the time of sampling, the weather was sunny with daytime temperatures ranging from 45 to 70° Fahrenheit. During the March sampling

event, all monitoring wells stabilized within four parameter readings, except for MW-45 that stabilized in five parameter readings. All wells and well pads appeared to be in good condition at the time of sampling.

2.2.2 Second Quarter Event (May-June 2023)

Each of the monitoring wells sampled at the Landfill were purged and sampled on either May 30 or 31 as described in Section 2.1. Each monitoring well was found locked upon arrival. At the time of sampling, the weather was sunny with daytime high temperatures ranging from 74 to 95° Fahrenheit. During the May sampling event, monitoring wells MW-41, LMW-5, LMW-8, LMW-17, LMW-21, and PMW-19R stabilized within four parameter readings and monitoring wells MW-47, LMW-9R, LMW-22, PMW-20R, and MW-45 stabilized within five parameter readings. All wells and well pads appeared to be in good condition at the time of sampling.

3.0 RESULTS

3.1 Groundwater Flow

Monitoring well water level data for the first and second quarter events are summarized in Table 1 and Table 2, respectively. In the Landfill area, the potentiometric surfaces shown on Figures 3 and 4 generally slope toward the southwest at a gradient of approximately 0.03 to 0.04 feet per foot (ft/ft). The groundwater levels and gradients measured during the first and second quarter sampling events are generally consistent with past groundwater monitoring events.

3.2 Analytical Results

Analytical results are summarized in Table 3 (first quarter event) and Table 4 (second quarter event), and laboratory reports are included in Appendix C. The laboratory analytical results for dissolved metals and total metals were below the applicable Texas Risk Reduction Program (TRRP) Residential Assessment Levels (RALs) or Protective Concentration Levels (PCLs) for both sampling events.

3.3 QA/QC Samples

The laboratory analytical results for the duplicates are presented in Table 3 and Table 4 for the first and second quarter events, respectively.

3.4 Data Validation

WSP completed a review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, Review and Reporting of COC Concentration Data (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in the data usability summary (DUS) which is included as Appendix D. All data are usable for determining concentrations of metals in groundwater.

4.0 CLOSING

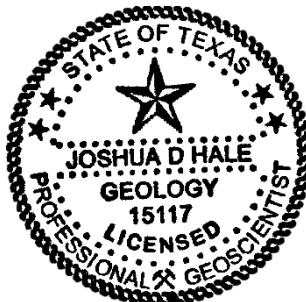
WSP appreciates the opportunity to serve as your consultant on this project. If you have any questions concerning this report or need additional information, please contact the undersigned at 314-984-8800.

Sincerely,

WSP USA Inc.



Joshua Hale, PG
Senior Geologist



5.0 REFERENCES

- [1] Pastor, Behling & Wheeler, LLC. (July 31, 2013). Revised Class 2 Landfill Groundwater Monitoring Plan.
- [2] Texas Commission on Environmental Quality (April 4, 2014). Approval with Modifications, Class 2 Landfill Groundwater Monitoring Plan, dated July 31, 2013.

Tables

TABLE 1
FIRST QUARTER 2023
SUMMARY OF MONITORING WELL DATA
NORTH CAMU
FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
FRISCO, TEXAS

Well ID	Date Drilled	Ground Surface Elevation ¹ (feet AMSL)	Top of Casing Elevation ¹ (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation ² (feet AMSL)	Depth of Well (feet BTOC)	Screened Interval (feet BGS)	Well Diameter (inches)	Water Column Length (feet)	Well Casing Volume ³ (gallons)	Actual Volume Purged (gallons)
MW-45	1/14/2014	657.90	660.86	12.09	648.77	22.55	10-20	2	10.46	1.7	NM
PMW-19R	2/26/2013	678.45	681.79	19.08	662.71	22.68	4-19	2	3.60	0.59	NM
LMW-9R	3/1/2016	661.39	664.31	8.67	655.64	32.90	15-30	2	24.23	4.0	0.8
LMW-8	2/4/1995	645.57	648.72	10.26	638.46	24.05	7-21.5	2	13.79	2.2	NM
LMW-22	2/27/2013	643.32	646.99	10.28	636.71	23.15	5-20	2	12.87	2.1	0.8
LMW-17	7/24/1995	646.34	648.70	11.78	636.92	25.45	10-20	4	13.67	8.9	0.8
LMW-5	2/3/1995	643.27	646.07	10.03	636.04	25.26	7-21.5	2	15.23	2.5	0.8
LMW-21	2/27/2013	645.12	648.28	12.08	636.20	28.07	10-25	2	15.99	2.6	0.8
PMW-20R	2/26/2013	645.20	648.09	11.77	636.32	28.25	10-25	2	16.48	2.7	0.8
MW-41	1/14/2014	639.17	642.17	9.51	632.66	19.15	6-16	2	9.64	1.6	0.8
MW-47	5/2/2017	635.65	638.28	3.31	634.97	17.95	7.5-15	2	14.64	2.4	0.8
MW-42	1/14/2014	638.71	642.24	6.97	635.27	NS	5-15	2	NS	NS	NS
P-1	5/8/1990	645.95	647.24	8.86	638.38	NS	10-20	2	NS	NS	NS

Notes

¹ - Ground surface elevations and top of casing elevations were surveyed in 2013 & 2014 by Sparr Surveys of McKinney, Texas.

Ground surface elevation and top of casing elevation for LMW-9R was surveyed on March 7, 2016 by Brittain & Crawford, LLC of Fort Worth, Texas.

Ground surface elevations and top of casing elevations for MW-47 and MW-41 were surveyed on June 13, 2017 by Brittain & Crawford, LLC of Fort Worth, Texas.

² - Groundwater elevation obtained by subtracting the depth to water from the top of casing elevation.

³ - Well casing volume = $\frac{\pi D^2}{4} * 7.5 * \text{Water Column Height}$ where 7.5 is a factor conversion from cubic feet to gallons, and D is the diameter of the casing.

Groundwater level measurements collected on March 15, 2023.

AMSL - above mean sea level

BTOC - below top of casing

BGS - below ground surface

NS - not sampled

CAMU - Corrective Action Management Unit

Prepared by: JDH 7/3/2023

Checked by: TCJ 7/11/2023

Reviewed by: THR 7/14/2023

TABLE 2
SECOND QUARTER 2023
SUMMARY OF MONITORING WELL DATA
NORTH CAMU
FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
FRISCO, TEXAS

Well ID	Date Drilled	Ground Surface Elevation ¹ (feet AMSL)	Top of Casing Elevation ¹ (feet AMSL)	Depth to Water (feet BTOC)	Groundwater Elevation ² (feet AMSL)	Depth of Well (feet BTOC)	Screened Interval (feet BGS)	Well Diameter (inches)	Water Column Length (feet)	Well Casing Volume ³ (gallons)	Actual Volume Purged (gallons)
MW-45	1/14/2014	657.90	660.86	13.03	647.83	22.57	10-20	2	9.54	1.6	1.25
PMW-19R	2/26/2013	678.45	681.79	19.98	661.81	22.69	4-19	2	2.71	0.4	1.00
LMW-9R	3/1/2016	661.39	664.31	16.47	647.84	32.92	15-30	2	16.45	2.7	1.25
LMW-8	2/4/1995	645.57	648.72	14.41	634.31	24.05	7-21.5	2	9.64	1.6	1.00
LMW-22	2/27/2013	643.32	646.99	15.56	631.43	23.15	5-20	2	7.59	1.2	1.25
LMW-17	7/24/1995	646.34	648.70	16.09	632.61	25.44	10-20	4	9.35	6.1	1.00
LMW-5	2/3/1995	643.27	646.07	14.23	631.84	25.26	7-21.5	2	11.03	1.8	1.00
LMW-21	2/27/2013	645.12	648.28	16.59	631.69	28.07	10-25	2	11.48	1.9	1.00
PMW-20R	2/26/2013	645.20	648.09	16.32	631.77	28.26	10-25	2	11.94	1.9	1.25
MW-41	1/14/2014	639.17	642.17	10.21	631.96	19.15	6-16	2	8.94	1.5	1.00
MW-47	5/2/2017	635.65	638.28	5.83	632.45	17.94	7.5-15	2	12.11	2.0	1.25
MW-42	1/14/2014	638.71	642.24	6.99	635.25	NS	5-15	2	NS	NS	NM
P-1	5/8/1990	645.95	647.24	10.74	636.50	NS	10-20	2	NS	NS	NM

Notes

¹ - Ground surface elevations and top of casing elevations were surveyed in 2013 & 2014 by Sparr Surveys of McKinney, Texas.

Ground surface elevation and top of casing elevation for LMW-9R was surveyed on March 7, 2016 by Brittain & Crawford, LLC of Fort Worth, Texas.

Ground surface elevations and top of casing elevations for MW-47 and MW-41 were surveyed on June 13, 2017 by Brittain & Crawford, LLC of Fort Worth, Texas.

² - Groundwater elevation obtained by subtracting the depth to water from the top of casing elevation.

³ - Well casing volume = $\frac{\pi D^2}{4} * 7.5 * \text{Water Column Height}$ where 7.5 is a factor conversion from cubic feet to gallons, and D is the diameter of the casing.

Groundwater levels measurements collected on May 30, 2023.

AMSL - above mean sea level

BGS - below ground surface

BTOC - below top of casing

CAMU - Corrective Action Management Unit

NS - not sampled

Prepared by: JDH 7/3/2023

Checked by: MM 7/5/2023

Reviewed by: THR 7/14/2023

TABLE 3
FIRST QUARTER 2023
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
CLASS 2 LANDFILL NORTH CAMU
FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
FRISCO, TEXAS

Monitoring Well				PMW-20R	SDL	LMW-5	SDL	LMW-21	SDL	MW-45	SDL	MW-41	SDL	PMW-19R	SDL
Lab Sample ID				HS23031023-07		HS23031023-05		HS23031023-06		HS23031023-01		HS23031023-08		HS23031023-02	
Date Sampled				3/15/2023		3/15/2023		3/15/2023		3/15/2023		3/15/2023		3/15/2023	
Time Sampled				13:00		11:35		12:25		9:25		13:40		10:00	
Metals (USEPA Method 6020A) Total Recoverable				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Prepared				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Analyzed				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
Antimony	7440-36-0	0.006	0.006	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400 J	0.000400	
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.00067 J	0.000400	0.000621 J	0.000400	0.000533 J	0.000400	0.000539 J	0.000400	0.000626 J	0.000400
Barium	7440-39-3	2	2	0.0562	0.00190	0.0571	0.00190	0.0295	0.00190	0.0727	0.00190	0.0586	0.00190	0.0529	0.00190
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200 U	0.000200	0.000200
Chromium	7440-47-3	0.1	0.1	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400 U	0.000400	0.000400
Copper	7440-50-8	1.3	1.3	0.00145 J	0.00100	0.00155 J	0.00100	0.00299	0.00100	0.00136 J	0.00100	0.00124 J	0.00100	0.00153 J	0.00100
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.001350 J	0.000600	0.001260 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600 U	0.000600	0.000600
Selenium	7782-49-2	0.05	0.05	0.00233	0.00110	0.00110 U	0.00110	0.00563	0.00110	0.00110 U	0.00110	0.00110 U	0.00110 U	0.00110	0.00110
Silver	7440-22-4	0.12	0.37	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200	0.000200
Zinc	7440-66-6	7.3	22	0.00200 U	0.00200	0.00200 U	0.00200	0.00348	0.00200	0.00200 U	0.00200	0.00222 J	0.00200	0.00413	0.00200
Metals (USEPA Method 6020A) Dissolved				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Prepared				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Analyzed				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
Antimony	7440-36-0	0.006	0.006	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400 U	0.000400	0.000400
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.000510 J	0.000400	0.000648 J	0.000400	0.000445 J	0.000400	0.000517 J	0.000400	0.000400 U	0.000400
Barium	7440-39-3	2	2	0.0537	0.00190	0.0509	0.00190	0.0328	0.00190	0.0687	0.00190	0.0711	0.00190	0.0572	0.00190
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200	0.000200
Chromium	7440-47-3	0.1	0.1	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400	0.000400
Copper	7440-50-8	1.3	1.3	0.00100 U	0.00100	0.00112 J	0.00100	0.00100 U	0.00100	0.00168 J	0.00100	0.00100 U	0.00100	0.00117 J	0.00100
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.001100 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600	0.000600
Selenium	7782-49-2	0.05	0.05	0.00238	0.00110	0.00110 U	0.00110	0.00715	0.00110	0.00137 J	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200	0.000200
Zinc	7440-66-6	7.3	22	0.00200 U	0.00200	0.00200 U	0.00200	0.00200 J	0.00200	0.00213 J	0.00200	0.00200 U	0.00200	0.00200 U	0.00200
Mercury (USEPA Method 7470A)				3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Date Prepared				3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Date Analyzed				3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
Mercury	7439-97-6	0.002	0.002	0.0000300 J	0.0000300	0.0000300 U	0.0000300	0.0000700 J	0.0000300	0.0000300 U	0.0000300	0.0000300 U	0.0000300 U	0.0000300	0.0000300
Mercury (USEPA Method 7470A) Dissolved				3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023	
Date Prepared				3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023	
Date Analyzed				3/20/2023		3/20/2023		3/20/2023							

TABLE 3
FIRST QUARTER 2023
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
CLASS 2 LANDFILL NORTH CAMU
FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
FRISCO, TEXAS

Monitoring Well				LMW-9R	SDL	LMW-8	SDL	LMW-17	SDL	LMW-22	SDL	MW-47	SDL	DUP-01	SDL
Lab Sample ID				HS23031023-10		HS23031023-03		HS23031023-04		HS23031023-11		HS23031023-09		HS23031023-12	
Date Sampled				3/15/2023		3/15/2023		3/15/2023		3/16/2023		3/15/2023		3/15/2023	
Time Sampled				15:30		10:35		11:00		8:40		14:35		11:35	
Metals (USEPA Method 6020A) Total Recoverable				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Prepared				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Analyzed				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000603 J	0.000400	0.000400 U	0.000400	0.000400 U	0.000400
Arsenic	7440-38-2	0.01	0.01	0.00152 J	0.000400	0.00295	0.000400	0.000865 J	0.000400	0.00180 J	0.000400	0.00279	0.000400	0.000484 J	0.000400
Barium	7440-39-3	2	2	0.0303	0.00190	0.0686	0.00190	0.0801	0.00190	0.0721	0.00190	0.0560	0.00190	0.0482	0.00190
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	0.000400 U	0.000400	0.00855	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400
Copper	7440-50-8	1.3	1.3	0.00476	0.00100	0.00381	0.00100	0.00243	0.00100	0.00110 J	0.00100	0.00100 U	0.00100	0.00121 J	0.00100
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.00347	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000986 J	0.000600
Selenium	7782-49-2	0.05	0.05	0.00110 U	0.00110	0.00690	0.00110	0.00113 J	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Zinc	7440-66-6	7.3	22	0.00213 J	0.00200	0.0188	0.00200	0.00371 J	0.00200	0.00200 U	0.00200	0.00200 U	0.00200	0.00200 U	0.00200
Metals (USEPA Method 6020A) Dissolved				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Prepared				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Date Analyzed				3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023		3/23/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000601 J	0.000400	0.000400 U	0.000400	0.000400 U	0.000400
Arsenic	7440-38-2	0.01	0.01	0.00128 J	0.000400	0.000507 J	0.000400	0.000871 J	0.000400	0.00175 J	0.000400	0.00247	0.000400	0.0005000 J	0.000400
Barium	7440-39-3	2	2	0.0287	0.00190	0.0436	0.00190	0.0789	0.00190	0.0718	0.00190	0.0536	0.00190	0.0496	0.00190
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000400 U	0.000400
Copper	7440-50-8	1.3	1.3	0.00463	0.00100	0.00100 U	0.00100	0.00100 U	0.00100	0.00160 J	0.00100	0.00100 U	0.00100	0.00117 J	0.00100
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00110 U	0.00110	0.00725	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Zinc	7440-66-6	7.3	22	0.00227 J	0.00200	0.00200 U	0.00200	0.00200 U	0.00200	0.00437	0.00200	0.00200 U	0.00200	0.00205 J	0.00200
Mercury (USEPA Method 7470A)				3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Date Prepared				3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Date Analyzed				3/22/2023		3/23/2023		3/22/2023		3/22/2023		3/22/2023		3/22/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Mercury	7439-97-6	0.002	0.002	0.0000300 U	0.0000300	0.0000300 U	0.0000300	0.0000300 U	0.0000300	0.0000300 U	0.0000300	0.0000300 U	0.0000300	0.0000300 U	0.0000300
Mercury (USEPA Method 7470A) Dissolved				3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023	
Date Prepared				3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023		3/20/2023	
Date Analyzed				3/20/2023		3/20/2023		3/20/20							

TABLE 4
SECOND QUARTER 2023
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
CLASS 2 LANDFILL NORTH CAMU
FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
FRISCO, TEXAS

Monitoring Well				PMW-20R	SDL	LMW-5	SDL	LMW-21	SDL	MW-45	SDL	MW-41	SDL	PMW-19R	SDL
Lab Sample ID				HS23060166-07		HS23060166-05		HS23060166-06		HS23060166-01		HS23060166-08		HS23060166-02	
Date Sampled				5/30/2023		5/30/2023		5/30/2023		5/30/2022		5/30/2023		5/30/2023	
Time Sampled				13:10		11:45		12:15		9:30		13:45		10:05	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023	
Date Analyzed				6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	7440-38-2	0.01	0.01	0.000456 J	0.000400	0.000486 J	0.000400	0.000756 J	0.000400	0.000432 J	0.000400	0.00218 J	0.000400	0.000583 J	0.000400
Barium	7440-39-3	2	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200						
Chromium	7440-47-3	0.1	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	7440-50-8	1.3	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.00159 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00139 J	0.00110	0.00110 U	0.00110	0.00640	0.00110	0.00114 J	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	7440-66-6	7.3	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals (USEPA Method 6020A) Dissolved															
Date Prepared				6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023	
Date Analyzed				6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	7440-38-2	0.01	0.01	0.000446 J	0.000400	0.000491 J	0.000400	0.000630 J	0.000400	0.000400 U	0.000400	0.00356	0.000400	0.000586 J	0.000400
Barium	7440-39-3	2	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200						
Chromium	7440-47-3	0.1	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	7440-50-8	1.3	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000849 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00140 J	0.00110	0.00110 U	0.00110	0.00606	0.00110	0.00168 J	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	7440-66-6	7.3	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury (USEPA Method 7470A)															
Date Prepared				NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Mercury	7439-97-6	0.002	0.002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury (USEPA Method 7470A) Dissolved				NS		NS		NS		NS		NS		NS	
Date Prepared				NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Mercury	7439-97-6	0.002	0.002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NotesResults in ***bold italics*** denote detections.

USEPA - United States Environmental Protection Agency.

RAL - Residential Assessment Level.

PCL - Protective Concentration Level.

SDL - Sample Detection Limit.

TRRP - Texas Risk Reduction Program.

mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

¹ - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential GW_{ing} PCL applicable for Class 2 groundwater ingestion.² - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial GW_{ing} PCL applicable for Class 2 groundwater ingestion.**Flags and Qualifiers**

U - Analyte was not detected at or above the Sample Detection Limit (SDL).

J - Result is an estimated value.

Prepared by: MEM 7/03/2023

Checked by: JDH 7/5/2023

Reviewed by: THR 7/14/23

TABLE 4
 SECOND QUARTER 2023
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 CLASS 2 LANDFILL NORTH CAMU
 FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE
 FRISCO, TEXAS

Monitoring Well				LMW-9R	SDL	LMW-8	SDL	LMW-17	SDL	LMW-22	SDL	MW-47	SDL	DUP-01	SDL
Lab Sample ID				HS23060166-10		HS23060166-03		HS23060166-04		HS23060166-11		HS23060166-09		HS23060166-12	
Date Sampled				5/31/2023		5/30/2023		5/30/2023		5/31/2023		5/30/2023		5/30/2023	
Time Sampled				8:00		10:40		11:10		9:00		14:30		11:45	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				6/7/2023		6/7/2023		6/7/2023		6/7/2022		6/7/2023		6/7/2023	
Date Analyzed				6/9/2023		6/9/2023		6/9/2023		6/9/2022		6/9/2023		6/9/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	7440-38-2	0.01	0.01	0.00342	0.000400	0.000859 J	0.000400	0.000537 J	0.000400	0.00219	0.000400	0.00165 J	0.000400	0.000433 J	0.000400
Barium	7440-39-3	2	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	7440-50-8	1.3	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000720 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00199 J	0.00110	0.00305	0.00110	0.00114 J	0.00110	0.00179 J	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	7440-66-6	7.3	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals (USEPA Method 6020A) Dissolved															
Date Prepared				6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023		6/7/2023	
Date Analyzed				6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023	
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Antimony	7440-36-0	0.006	0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	7440-38-2	0.01	0.01	0.00331	0.000400	0.000472 J	0.000400	0.000566 J	0.000400	0.00264	0.000400	0.00106 J	0.000400	0.000455 J	0.000400
Barium	7440-39-3	2	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	7440-50-8	1.3	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00202	0.00110	0.00292	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00171 J	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	7440-66-6	7.3	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury (USEPA Method 7470A)															
Date Prepared				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Date Analyzed				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Mercury	7439-97-6	0.002	0.002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury (USEPA Method 7470A) Dissolved				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Date Prepared				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Date Analyzed				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Analyte	CAS No.	RAL ¹ (mg/L)	PCL ² (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Mercury	7439-97-6	0.002	0.002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NotesResults in ***bold italics*** denote detections.

USEPA - United States Environmental Protection Agency.

RAL - Residential Assessment Level.

PCL - Protective Concentration Level.

SDL - Sample Detection Limit.

TRRP - Texas Risk Reduction Program.

mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

¹ - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential GW_{Res} PCL applicable for Class 2 groundwater ingestion.² - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial GW_{Ind} PCL applicable for Class 2 groundwater ingestion.**Flags and Qualifiers**

U - Analyte was not detected at or above the Sample Detection Limit (SDL).

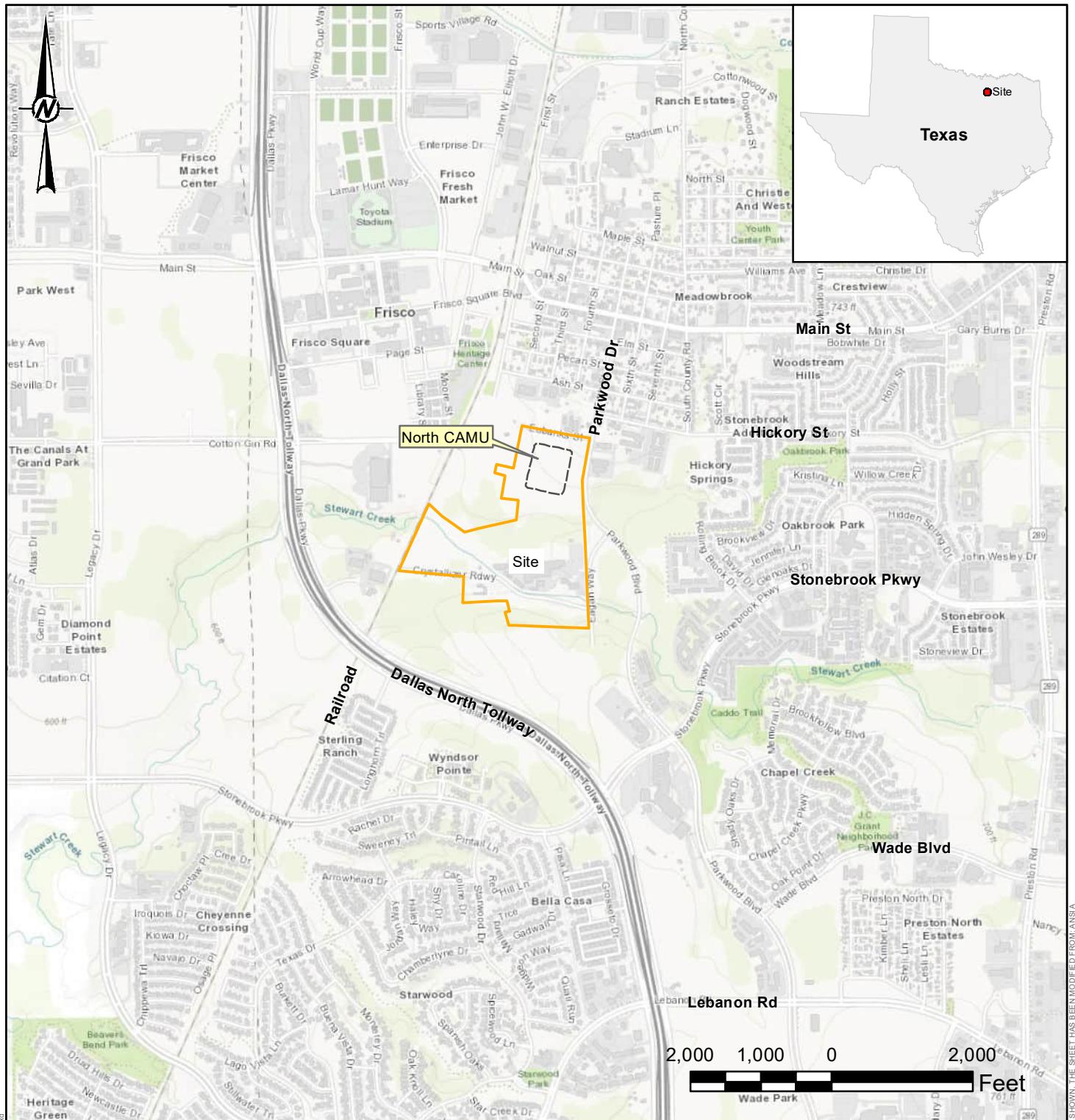
J - Result is an estimated value.

Prepared by: MEM 7/03/2023

Checked by: JDH 7/5/2023

Reviewed by: THR 7/14/23

Figures



LEGEND

Former Operating Plant Property Boundary

NOTES:

1. CAMU – CORRECTIVE ACTION MANAGEMENT UNIT

REFERENCE

1. BASE MAP - SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOFACADEMY, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

FRISCO COMMUNITY DEVELOPMENT CORPORATION
FRISCO, TX

PROJECT

NORTH CAMU GROUNDWATER MONITORING

TITLE

SITE LOCATION MAP

CONSULTANT



YYYY-MM-DD 04/19/2021

PREPARED SJRS

DESIGN SJRS

REVIEW EPF

APPROVED AMF

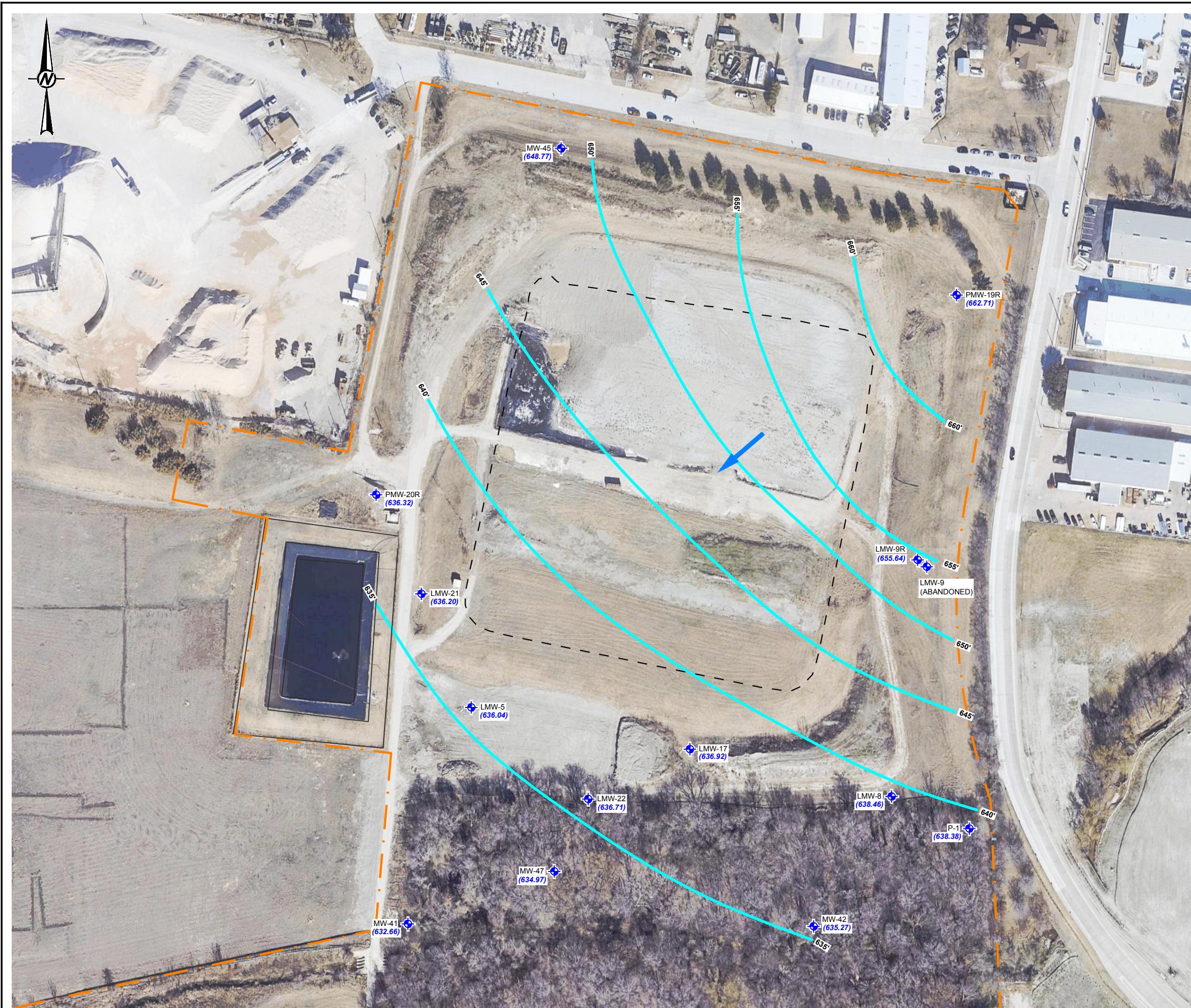
PROJECT No.
20409062

CONTROL
20409062A003.mxd

Rev.
0

FIGURE
1

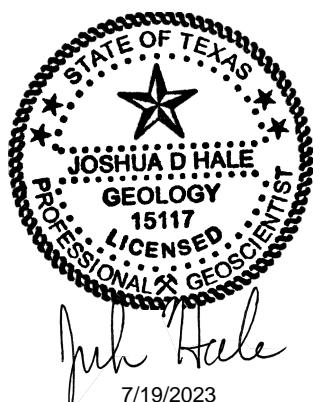




NOTE(S)

1. GROUNDWATER ELEVATIONS MEASURED MARCH 15, 2023.
2. MSL = MEAN SEA LEVEL
3. CONTOUR INTERVAL = 5 FEET
4. LMW-9 COLLAPSED AND WAS REPLACED WITH LMW-9R IN MARCH 2016 AND LMW-9 WAS SUBSEQUENTLY ABANDONED IN MAY 2017.
5. CAMU - CORRECTIVE ACTION MANAGEMENT UNIT.

REFERENCE(S)
BASE MAP TAKEN FROM GOOGLE EARTH DATED 12/10/2017



CLIENT
FRISCO COMMUNITY DEVELOPMENT CORPORATION
FRISCO, TX

PROJECT
NORTH CAMU GROUNDWATER MONITORING

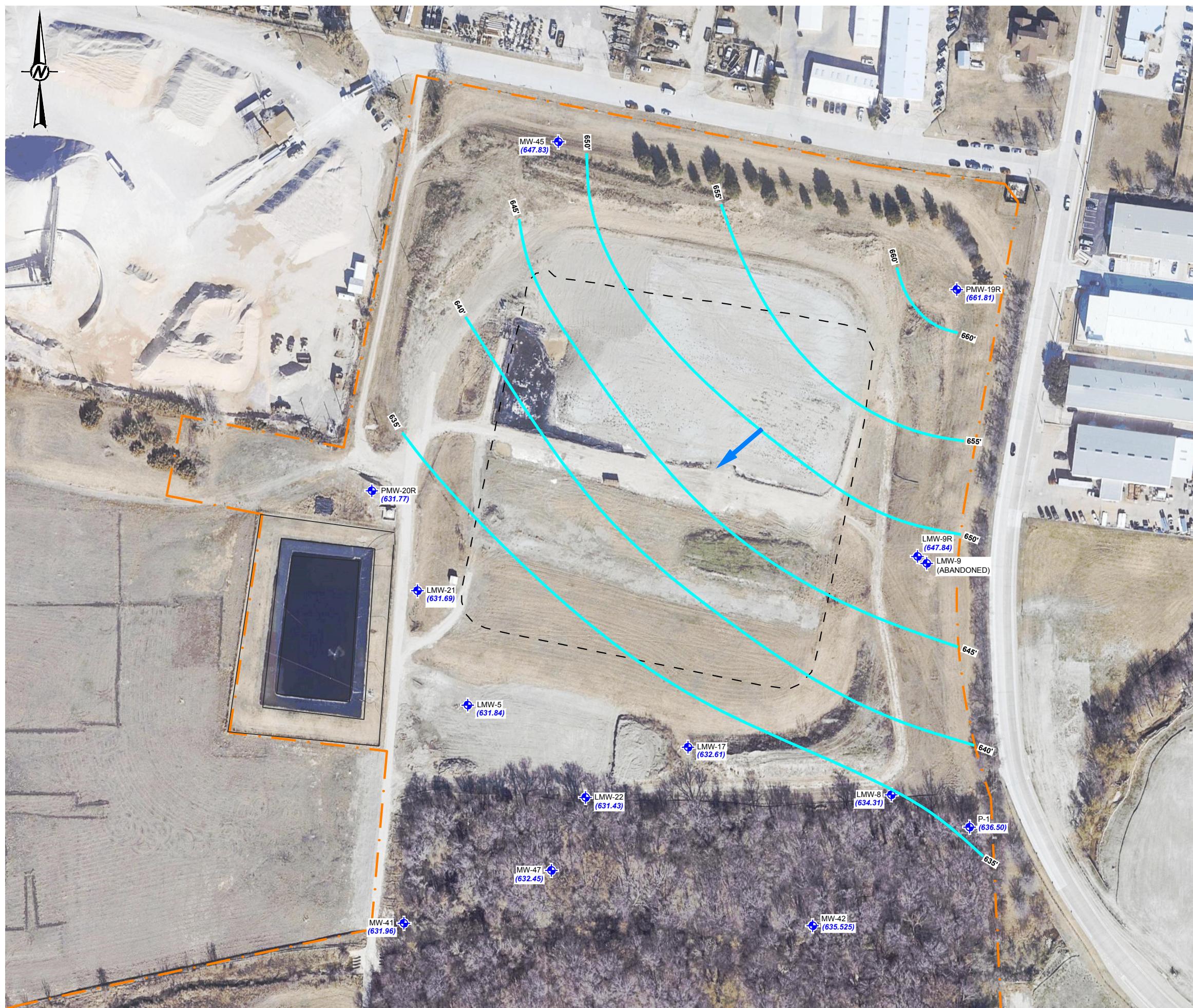
TITLE
GROUNDWATER GRADIENT MAP
FIRST QUARTER 2023

CONSULTANT	YYYY-MM-DD	2023-07-10
	DESIGNED	RS
	PREPARED	RS
	REVIEWED	JH
	APPROVED	XXX

PROJECT NO.
GL2040906205

REV.
A

FIGURE
3



LEGEND

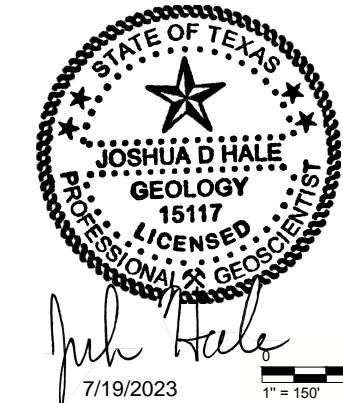
- SITE PROPERTY BOUNDARY
- - - APPROXIMATE EXTENT OF DISPOSAL AREA
- MONITORING WELL LOCATION
- (ELEVATION) GROUNDWATER ELEVATION (IN FEET ABOVE MSL)
- GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR
- SURFACE WATER FLOW DIRECTION

NOTE(S)

1. GROUNDWATER ELEVATIONS MEASURED MAY 30, 2023.
2. MSL = MEAN SEA LEVEL
3. CONTOUR INTERVAL = 5 FEET
4. LMW-9 COLLAPSED AND WAS REPLACED WITH LMW-9R IN MARCH 2016 AND LMW-9 WAS SUBSEQUENTLY ABANDONED IN MAY 2017.
5. CAMU - CORRECTIVE ACTION MANAGEMENT UNIT.

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, DATED 12/10/2017.



75 150
1' = 150' FEET

CLIENT
FRISCO COMMUNITY DEVELOPMENT CORPORATION
FRISCO, TX

PROJECT
NORTH CAMU GROUNDWATER MONITORING

TITLE
GROUNDWATER GRADIENT MAP
SECOND QUARTER 2023

CONSULTANT	YYYY-MM-DD	2023-07-10
DESIGNED	RS	
PREPARED	RS	
REVIEWED	JH	
APPROVED	XXX	

PROJECT NO.	REV.
GL2040906205	A

APPENDIX A

Monitoring Well Inspection Forms



Monitoring Well Inspection Form

Project Name: Exide North CAMU GW Monitoring

Location: Frisco, TX

Project No.: 130-2086-05

Well No.	Date of Inspection	Is Well Easily Identified (name written on casing) Y / N	Is Surface Completion in Good Condition Y / N	Is Well Outer Casing in Good Condition Y / N	Is Well Secured, ie Locked Y / N	By	Action Required
MW-45	5-90-23	Y	Y	Y	Y		
PMW-19R		Y	Y	Y	Y		
LMW-8		Y	Y	Y	Y		
LMW-17		Y	Y	Y	Y		
LMW-5		Y	Y	Y	Y		
LMW-21		Y	Y	Y	Y		
PMW-20R		Y	Y	Y	Y		
MW-47		Y	Y	Y	Y		
MW-41		Y	Y	Y	Y		
LMW-9R		Y	Y	Y	Y		
LMW-22		Y	Y	Y	Y		



GOLDFINGER

MEMBER OF WSP

Monitoring Well Inspection Form

Project Name: North CAMU GW Monitoring

Location: Frisco, TX

Project No.: 2040906201

Well No.	Date of Inspection	Is Well Easily Identified (name written on casing) Y / N	Is Surface Completion in Good Condition Y / N	Is Well Outer Casing In Good Condition Y / N	Is Well Inner Casing In Good Condition Y / N	Is Well Secured, ie Locked Y / N	By	Action Required
MW-45	3-15-23	Y	Y	Y	Y	Y	SB	None
PMW-19R		Y	Y	Y	Y	Y		
LMW-8		Y	Y	Y	Y	Y		
LMW-17		Y	Y	Y	Y	Y		
LMW-5		Y	Y	Y	Y	Y		
LMW-21		Y	Y	Y	Y	Y		
PMW-20R		Y	Y	Y	Y	Y		
MW-47		Y	Y	Y	Y	Y		
MW-41		Y	Y	Y	Y	Y		
LMW-9R		Y	Y	Y	Y	Y		
LMW-22		Y	Y	Y	Y	Y		

APPENDIX B

Groundwater Sampling Forms



RECORD OF WATER LEVEL READINGS

Project Name: North CAMU GW Monitoring

Project No.: 2040906201

Location: Frisco, TX

Borehole No.	Date	Time	Measuring Device / Serial No.	Measurement Point (M.P.)	Water Level Below M.P. (FT)	Total Depth (FT)	Survey Mark Elevation	Water Level Elevation	By	Comments
MW-45	3-15-23		HERON 100'	TOC	12.09	22.50	-	-	JJB	N/A
PMW-19R				TOC	19.08	22.50	-	-		
LMW-8				TOC	10.26	23.85	-	-		
LMW-17				TOC	11.78	25.22	-	-		
LMW-5				TOC	10.03	25.10	-	-		
LMW-21				TOC	12.08	27.00	-	-		
PMW-20R				TOC	11.77	28.05	-	-		
MW-41				TOC	9.51	18.90	-	-		
MW-47				TOC	3.31	17.10	-	-		
LMW-9R				TOC	8.67	32.60	-	-		
LMW-22				TOC	10.28	22.95	-	-		
P-1				TOC	8.86	NM	-	-		
MW-42				TOC	16.97	NM	-	-		



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 70° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-22 Sample No. LMW-22Sample Date 3-16-23 Time 0840 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 0820 Water Level Before Purging: 10.28 FT BTOC TD: 22.95 FT BTOC
@ 200 mL/min Well Volume: 12.67 FT x 0.163 gal/FT = 2.0 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 10.49 FT BTOC
Water Level After Sampling: 10.51 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0825</u>	<u>0830</u>	<u>0835</u>		<u>0840</u>
Volume Discharge	gals	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
pH	Standard	<u>6.8L</u>	<u>6.82</u>	<u>6.81</u>		<u>6.83</u>
Spec. Cond.	mS/CM	<u>1,212</u>	<u>1,239</u>	<u>1,231</u>		<u>1,234</u>
Turbidity	NTU	<u>4.71</u>	<u>4.52</u>	<u>4.56</u>		<u>4.62</u>
Temperature	°C	<u>21.57</u>	<u>21.67</u>	<u>21.71</u>		<u>21.73</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>10.42</u>	<u>10.46</u>	<u>10.49</u>		<u>10.51</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>ND</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel

Submersible Pump

Other _____

Teflon

Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 65° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-9R Sample No. LMW-9RSample Date 3-15-23 Time 1530 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1510 Water Level Before Purging: 8.67 FT BTOC TD: 32.60 FT BTOC
@ 200 mL/min Well Volume: 23.93 FT x 0.163 gal/FT = 3.9 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 8.99 FT BTOC
Water Level After Sampling: 8.99 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1515</u>	<u>1520</u>	<u>1525</u>		<u>1530</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>6.47</u>	<u>6.53</u>	<u>6.54</u>		<u>6.55</u>
Spec. Cond.	mS/CM	<u>2,914</u>	<u>2,944</u>	<u>2,946</u>		<u>2,947</u>
Turbidity	NTU	<u>5.29</u>	<u>5.36</u>	<u>5.39</u>		<u>5.39</u>
Temperature	°C	<u>21.41</u>	<u>21.31</u>	<u>21.34</u>		<u>21.34</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>8.91</u>	<u>8.96</u>	<u>8.99</u>		<u>8.99</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>N/D</u>	<u>HNO₃</u>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	<u>HNO₃</u>
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand PumpAir-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 65° Weather SUNNYSAMPLE INFORMATIONSample Location MW-47 Sample No. MW-47Sample Date 3-15-23 Time 1435 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1415 Water Level Before Purging: 3.31 FT BTOC TD: 17.10 FT BTOC
@ 200 mL/min Well Volume: 13.79 FT x 0.163 gal/FT = 2.3 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 3.57 FT BTOC
Water Level After Sampling: 3.59 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1420</u>	<u>1425</u>	<u>1430</u>		<u>1435</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>6.89</u>	<u>6.84</u>	<u>6.86</u>		<u>6.87</u>
Spec. Cond.	mS/CM	<u>1,341</u>	<u>1,356</u>	<u>1,362</u>		<u>1,371</u>
Turbidity	NTU	<u>5.16</u>	<u>5.26</u>	<u>5.29</u>		<u>5.29</u>
Temperature	°C	<u>20.91</u>	<u>20.84</u>	<u>20.87</u>		<u>20.86</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>3.51</u>	<u>3.54</u>	<u>3.57</u>		<u>3.59</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>N/D</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump

Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 65° Weather SUNNYSAMPLE INFORMATIONSample Location MW-41 Sample No. MW-41Sample Date 3-15-23 Time 1340 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1320 Water Level Before Purging: 9.51 FT BTOC TD: 18.90 FT BTOC
@ 200 mL/min Well Volume: 9.39 FT x 0.163 gal/FT = 1.5 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 9.77 FT BTOC
Water Level After Sampling: 9.79 FT BTOC
Appearance of Sample: Clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1325</u>	<u>1330</u>	<u>1335</u>		<u>1340</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>6.71</u>	<u>6.77</u>	<u>6.79</u>		<u>6.81</u>
Spec. Cond.	mS/CM	<u>1.216</u>	<u>1.234</u>	<u>1.241</u>		<u>1.246</u>
Turbidity	NTU	<u>4.21</u>	<u>3.96</u>	<u>3.91</u>		<u>3.94</u>
Temperature	°C	<u>21.46</u>	<u>21.61</u>	<u>21.64</u>		<u>21.66</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>9.71</u>	<u>9.74</u>	<u>9.77</u>		<u>9.79</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel

Submersible Pump

Other _____

Teflon

Hand Pump



GOLDER
MEMBER OF WSP

GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201

WEATHER CONDITIONS

Temperature 62° Weather SUNNY

SAMPLE INFORMATION

Sample Location PMW-20R Sample No. PMW-20R

Sample Date 3-15-23 Time 1300 Sample By JTB

Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1240 Water Level Before Purging: 11.77 FT BTOC TD: 28.05 FT BTOC
@ 200 mL/min Well Volume: 16.25 FT x 0.163 gal/FT = 0.5 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 12.05 FT BTOC
Water Level After Sampling: 12.07 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1245</u>	<u>1250</u>	<u>1255</u>		<u>1300</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>6.96</u>	<u>6.99</u>	<u>6.99</u>		<u>6.96</u>
Spec. Cond.	mS/CM	<u>1,096</u>	<u>1,045</u>	<u>1,049</u>		<u>1,046</u>
Turbidity	NTU	<u>3.24</u>	<u>3.41</u>	<u>3.46</u>		<u>3.46</u>
Temperature	°C	<u>21.41</u>	<u>21.31</u>	<u>21.34</u>		<u>21.35</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>11.96</u>	<u>12.02</u>	<u>12.05</u>		<u>12.07</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel

Submersible Pump

Other _____

Teflon

Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 60° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-21 Sample No. LMW-21Sample Date 3-15-23 Time 1225 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1205 Water Level Before Purging: 12.08 FT BTOC TD: 27.90 FT BTOC
@ 200 mL/min Well Volume: 15.82 FT x 0.163 gal/FT = 2.6 gallons
Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 12.31 FT BTOC
Water Level After Sampling: 12.31 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1210</u>	<u>1215</u>	<u>1220</u>		<u>1225</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>6.56</u>	<u>6.59</u>	<u>6.62</u>		<u>6.61</u>
Spec. Cond.	mS/CM	<u>1,134</u>	<u>1,149</u>	<u>1,146</u>		<u>1,147</u>
Turbidity	NTU	<u>5.2L</u>	<u>5.39</u>	<u>5.36</u>		<u>5.31</u>
Temperature	°C	<u>21.36</u>	<u>21.41</u>	<u>21.42</u>		<u>21.42</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>12.21</u>	<u>12.29</u>	<u>12.31</u>		<u>12.31</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NO</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand PumpAir-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 50° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-5 Sample No. LMW-5/DUP-01Sample Date 3-15-23 Time 1135 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1115 mL/min Water Level Before Purging: 10.03 FT BTOC TD: 25,10 FT BTOC
@ 200 mL/min Well Volume: 15.07 FT x 0.163 gal/FT = 2.5 gallons Volume Water Removed Before Sampling: 0.8 gallons
Water Level Before Sampling: 10.32 FT BTOC Water Level After Sampling: 10.34 FT BTOC
Appearance of Sample: Clean

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1120</u>	<u>1125</u>	<u>1130</u>		<u>1135</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>7.24</u>	<u>7.29</u>	<u>7.31</u>		<u>7.30</u>
Spec. Cond.	mS/CM	<u>0.849</u>	<u>0.861</u>	<u>0.857</u>		<u>0.856</u>
Turbidity	NTU	<u>3.26</u>	<u>3.47</u>	<u>3.41</u>		<u>3.46</u>
Temperature	°C	<u>21.31</u>	<u>21.39</u>	<u>21.36</u>		<u>21.39</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>10.24</u>	<u>10.29</u>	<u>10.32</u>		<u>10.34</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	2 x 120 mL Poly	<u>NO</u>	<u>HNO₃</u>
2	Dissolved Metals	2 x 120 mL Poly	Yes (0.45 µm)	<u>HNO₃</u>
3				
4				
5				
6				
7				
8				

REMARKS: DUP-01 collected

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 50° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-17 Sample No. LMW-17Sample Date 3-15-23 Time 1100 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1040 Water Level Before Purging: 11.78 FT BTOC TD: 25.20 FT BTOC
@ 200 mL/min Well Volume: 13.42 FT x 0.653 gal/FT = 2.2 gallons
Volume Water Removed Before Sampling: 10.8 gallons
Water Level Before Sampling: 12.02 FT BTOC
Water Level After Sampling: 12.03 FT BTOC
Appearance of Sample: clean

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1045</u>	<u>1050</u>	<u>1055</u>		<u>1100</u>
Volume Discharge	gals	<u>0.2</u>	<u>0.4</u>	<u>0.6</u>		<u>0.8</u>
pH	Standard	<u>4.71</u>	<u>6.75</u>	<u>6.76</u>		<u>6.77</u>
Spec. Cond.	mS/CM	<u>0.917</u>	<u>0.929</u>	<u>0.936</u>		<u>0.931</u>
Turbidity	NTU	<u>8.16</u>	<u>8.21</u>	<u>8.20</u>		<u>8.23</u>
Temperature	°C	<u>21.26</u>	<u>21.34</u>	<u>21.35</u>		<u>21.37</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>11.97</u>	<u>12.01</u>	<u>12.02</u>		<u>12.03</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NO</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand PumpAir-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 48° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-8 Sample No. LMW-8Sample Date 3-15-23 Time 1035 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1015 Water Level Before Purging: 10.26 FT BTOC TD: 23.85 FT BTOC
@ 200 mL/min Volume Water Removed Before Sampling: — gallons
Water Level Before Sampling: 10.49 FT BTOC
Water Level After Sampling: 10.51 FT BTOC
Appearance of Sample: clean

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1020</u>	<u>1025</u>	<u>1030</u>		<u>1035</u>
Volume Discharge	gals	<u>—</u>	<u>—</u>	<u>—</u>		<u>—</u>
pH	Standard	<u>6.71</u>	<u>6.77</u>	<u>6.78</u>		<u>6.79</u>
Spec. Cond.	mS/CM	<u>0.817</u>	<u>0.829</u>	<u>0.836</u>		<u>0.841</u>
Turbidity	NTU	<u>8.16</u>	<u>8.19</u>	<u>8.24</u>		<u>8.21</u>
Temperature	°C	<u>21.06</u>	<u>21.12</u>	<u>21.13</u>		<u>21.16</u>
Pump Rate	mL/min	<u>200</u>	<u>200</u>	<u>200</u>		<u>200</u>
Water Level	FT BTOC	<u>10.42</u>	<u>10.46</u>	<u>10.49</u>		<u>10.51</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NO</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand PumpAir-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 46° Weather SUNNYSAMPLE INFORMATIONSample Location PMW-19R Sample No. PMW-19RSample Date 3-15-23 Time 1000 Sample By JTBSample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 0940 Water Level Before Purging: 19.08 FT BTOC TD: 22.5D FT BTOC
@ 250 mL/min Volume Water Removed Before Sampling: — gallons
Water Level Before Sampling: 19.41 FT BTOC
Water Level After Sampling: 19.42 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0945</u>	<u>0950</u>	<u>0955</u>		<u>1000</u>
Volume Discharge	gals	<u>—</u>	<u>—</u>	<u>—</u>		<u>—</u>
pH	Standard	<u>6.96</u>	<u>6.89</u>	<u>6.91</u>		<u>6.92</u>
Spec. Cond.	S/CM	<u>1,260</u>	<u>1,290</u>	<u>1,290</u>		<u>1,280</u>
Turbidity	NTU	<u>7.66</u>	<u>7.41</u>	<u>7.46</u>		<u>7.51</u>
Temperature	°C	<u>21.46</u>	<u>21.6</u>	<u>21.64</u>		<u>21.61</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>		<u>250</u>
Water Level	FT BTOC	<u>19.34</u>	<u>19.39</u>	<u>19.41</u>		<u>19.42</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NO</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: _____

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel

Submersible Pump

Other _____

Teflon

Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: North CAMU Groundwater Monitoring Project No.: 2040906201WEATHER CONDITIONSTemperature 45° Weather SUNNYSAMPLE INFORMATIONSample Location MW-45 Sample No. MW-45/MS-01/MSD-01Sample Date 3-15-23 Time 0925 Sample By JTBSample Method Peristaltic Pump Sample Type GrabBegin Purge @ 0900 Water Level Before Purging: 12.09 FT BTOC TD: 22.50 FT BTOC@ 250 mL/min Volume Water Removed Before Sampling: — gallonsWater Level Before Sampling: 12.37 FT BTOCWater Level After Sampling: 12.38 FT BTOCAppearance of Sample: clearFIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0905</u>	<u>0910</u>	<u>0915</u>	<u>0920</u>	<u>0925</u>
Volume Discharge	gals	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
pH	Standard	<u>6.59</u>	<u>6.52</u>	<u>6.51</u>	<u>6.56</u>	<u>6.58</u>
Spec. Cond.	mS/CM	<u>1320</u>	<u>1260</u>	<u>1250</u>	<u>1240</u>	<u>1240</u>
Turbidity	NTU	<u>5.2L</u>	<u>5.74</u>	<u>5.79</u>	<u>5.76</u>	<u>5.77</u>
Temperature	°C	<u>21.06</u>	<u>21.21</u>	<u>21.26</u>	<u>21.29</u>	<u>21.29</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Water Level	FT BTOC	<u>12.2L</u>	<u>12.31</u>	<u>12.34</u>	<u>12.37</u>	<u>12.38</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	ND	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: MS-01/MSD-01 collected.

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel

Submersible Pump

Other _____

Teflon

Hand Pump



RECORD OF WATER LEVEL READINGS

Project Name: Exide North CAMU GW Monitoring

Location: Frisco, TX

Project No.: 130-2086-05

Borehole No.	Date	Time	Measuring Device / Serial No.	Measurement Point (M.P)	Water Level Below M.P. (FT)	Total Depth (FT)	Survey Mark Elevation	Water Level Elevation	By	Comments
MW-45	5-30-23		SOLINST 100'	TOC	3.03	22.57	-	-	MB	
PMW-19R				TOC	9.98	22.69	-	-		
LMW-8				TOC	14.41	24.05	-	-		
LMW-17				TOC	16.09	25.44	-	-		
LMW-5				TOC	14.23	25.26	-	-		
LMW-21				TOC	16.59	28.07	-	-		
PMW-20R				TOC	16.32	28.26	-	-		
MW-41				TOC	10.21	19.15	-	-		
MW-47				TOC	5.83	17.94	-	-		
LMW-9R				TOC	16.47	32.92	-	-		
LMW-22				TOC	15.56	23.15	-	-		
P-1				TOC	10.74	NM	-	-		
MW-42				TOC	6.99	NM	-	-		



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No. : 130-2086-05WEATHER CONDITIONSTemperature 79° Weather SUNNYSAMPLE INFORMATION

Sample Location LMW-22 Sample No. LMW-22
Sample Date 5-31-23 Time 0900 Sample By JTB
Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 0835 Water Level Before Purging: 15.56 FT BTOC TD: 23.15 FT BTOC
@ 250 mL/min Well Volume: 7.59 FT x 0.163 gal/FT = 1.24 gallons
Volume Water Removed Before Sampling: 1.25 gallons
Water Level Before Sampling: 15.92 FT BTOC
Water Level After Sampling: 15.93 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0840</u>	<u>0845</u>	<u>0850</u>	<u>0855</u>	<u>0900</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>	<u>1.0</u>	<u>1.25</u>
pH	Standard	<u>6.5A</u>	<u>6.67</u>	<u>6.69</u>	<u>6.71</u>	<u>6.74</u>
Spec. Cond.	mS/CM	<u>1,461</u>	<u>1,569</u>	<u>1,696</u>	<u>1,691</u>	<u>1,694</u>
Turbidity	NTU	<u>2.34</u>	<u>2.67</u>	<u>2.74</u>	<u>2.74</u>	<u>2.73</u>
Temperature	°C	<u>19.4L</u>	<u>19.52</u>	<u>19.57</u>	<u>19.5L</u>	<u>19.56</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Water Level	FT BTOC	<u>15.79</u>	<u>15.84</u>	<u>15.89</u>	<u>15.92</u>	<u>15.93</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NID</u>	<u>HNO₃</u>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	<u>HNO₃</u>
3				
4				
5			<u>RSF</u>	
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring

Project No.: 130-2086-05

WEATHER CONDITIONS

Temperature 74° Weather SUNNY

SAMPLE INFORMATION

Sample Location LMW-9R

Sample No. LMW-9R

Sample Date 5-31-23

Time 0800

Sample By JTB

Sample Method Peristaltic Pump

Sample Type Grab

Begin Purge @

0735

Water Level Before Purging: 16.47

FT BTOC TD: 32.92

@ 250 mL/min

Well Volume: 16.45 FT x 0.163 gal/FT = 2.7 gallons

Volume Water Removed Before Sampling: 1.25 gallons

Water Level Before Sampling: 16.79 FT BTOC

Water Level After Sampling: 16.79 FT BTOC

Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	0740	0745	0750	0755	0800
Volume Discharge	gals	.25	.50	.75	1.00	1.25
pH	Standard	6.71	6.73	6.89	6.91	6.92
Spec. Cond.	mS/CM	2,512	2,574	2,586	2,591	2,597
Turbidity	NTU	4.21	4.26	4.29	4.21	4.23
Temperature	°C	20.06	20.21	20.26	20.27	20.24
Pump Rate	mL/min	250	250	250	250	250
Water Level	FT BTOC	16.71	16.73	16.75	16.79	16.79

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	ND	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE

Peristaltic Pump

Air-Lift Pump

Stainless Steel
TeflonSubmersible Pump
Hand Pump

Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No. : 130-2086-05WEATHER CONDITIONSTemperature 95° Weather SUNNYSAMPLE INFORMATION

Sample Location MW-47 Sample No. MW-47
Sample Date 5-30-23 Time 1430 Sample By JTB
Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1405 Water Level Before Purging: 5.83 FT BTOC TD: 17.94 FT BTOC
@250 mL/min Well Volume: 12.11 FT x 0.163 gal/FT = 1.97 gallons
Volume Water Removed Before Sampling: 1.25 gallons
Water Level Before Sampling: 6.21 FT BTOC
Water Level After Sampling: 6.24 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1410</u>	<u>1415</u>	<u>1420</u>	<u>1425</u>	<u>1430</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>	<u>1.00</u>	<u>1.25</u>
pH	Standard	<u>6.71</u>	<u>6.77</u>	<u>6.81</u>	<u>6.84</u>	<u>6.86</u>
Spec. Cond.	mS/CM	<u>1.316</u>	<u>1.329</u>	<u>1.321</u>	<u>1.323</u>	<u>1.326</u>
Turbidity	NTU	<u>2.64</u>	<u>2.91</u>	<u>2.96</u>	<u>2.93</u>	<u>3.04</u>
Temperature	°C	<u>20.46</u>	<u>20.49</u>	<u>20.41</u>	<u>20.43</u>	<u>20.46</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Water Level	FT BTOC	<u>6.07</u>	<u>6.13</u>	<u>6.16</u>	<u>6.21</u>	<u>6.24</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring

Project No.: 130-2086-05

WEATHER CONDITIONS

Temperature 94° Weather SUNNY

SAMPLE INFORMATION

Sample Location MW-41 Sample No. MW-41

Sample Date 5-30-23 Sample By JTB

Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1325 Water Level Before Purging: 10.21 FT BTOC TD: 19.15 FT BTOC

@ 250 mL/min Well Volume: 8.94 FT x 0.163 gal/FT = 1.45 gallons

Volume Water Removed Before Sampling: 1.00 gallons

Water Level Before Sampling: 10.58 FT BTOC

Water Level After Sampling: 10.59 FT BTOC

Appearance of Sample: clean

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	1330	1335	1340		1345
Volume Discharge	gals	.25	.50	.75		1.00
pH	Standard	6.83	6.86	6.87		6.86
Spec. Cond.	mS/CM	0.961	0.996	0.991		0.993
Turbidity	NTU	5.63	5.96	5.91		5.93
Temperature	°C	19.31	19.67	19.77		19.73
Pump Rate	mL/min	250	250	250		250
Water Level	FT BTOC	10.46	10.51	10.56		10.54

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump

Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No. : 130-2086-05WEATHER CONDITIONSTemperature 95° Weather SUNNYSAMPLE INFORMATION

Sample Location PMW-20R Sample No. PMW-20R
Sample Date 5-30-23 Time 1310 Sample By JTB
Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1245 Water Level Before Purging: 16.32 FT BTOC TD: 28.26 FT BTOC
@ 250 mL/min Well Volume: 11.94 FT x 0.163 gal/FT = 1.95 gallons
Volume Water Removed Before Sampling: 1.25 gallons
Water Level Before Sampling: 16.61 FT BTOC
Water Level After Sampling: 16.62 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1250</u>	<u>1255</u>	<u>1300</u>	<u>1305</u>	<u>1310</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>	<u>1.00</u>	<u>1.25</u>
pH	Standard	<u>6.92</u>	<u>6.97</u>	<u>6.99</u>	<u>6.94</u>	<u>6.95</u>
Spec. Cond.	mS/CM	<u>1,146</u>	<u>1,177</u>	<u>1,171</u>	<u>1,162</u>	<u>1,169</u>
Turbidity	NTU	<u>3.67</u>	<u>4.09</u>	<u>4.13</u>	<u>4.01</u>	<u>4.07</u>
Temperature	°C	<u>20.34</u>	<u>20.46</u>	<u>20.41</u>	<u>20.36</u>	<u>20.38</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Water Level	FT BTOC	<u>16.51</u>	<u>16.56</u>	<u>16.59</u>	<u>16.61</u>	<u>16.62</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Peristaltic Pump Air-Lift Pump
Stainless Steel Submersible Pump Other _____
Teflon Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring

Project No.: 130-2086-05

WEATHER CONDITIONS

Temperature 90° Weather SUNNY

SAMPLE INFORMATION

Sample Location LMW-21 Sample No. LMW-21

Sample Date 5-30-23 Sample By JTB

Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1155 Water Level Before Purging: 16.59 FT BTOC TD: 28.07 FT BTOC
@ 250 mL/min Well Volume: 11.48 FT x 0.163 gal/FT = 1.9 gallons
Volume Water Removed Before Sampling: 1.00 gallons
Water Level Before Sampling: 16.84 FT BTOC
Water Level After Sampling: 16.85 FT BTOC
Appearance of Sample: Clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	1200	1205	1210		1215
Volume Discharge	gals	.25	.50	.75		1.00
pH	Standard	6.71	6.67	6.68		6.64
Spec. Cond.	mS/CM	1.556	1.547	1.544		1.549
Turbidity	NTU	8.67	8.77	8.71		8.72
Temperature	°C	20.34	20.41	20.43		20.44
Pump Rate	mL/min	250	250	250		250
Water Level	FT BTOC	16.79	16.81	16.84		16.85

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No.: 130-2086-05

WEATHER CONDITIONS

Temperature 90° Weather SUNNY

SAMPLE INFORMATION

Sample Location LMW-5 Sample No. LMW-5/DUP-01
Sample Date 5-30-23 Time 1145 Sample By JTB
Sample Method Peristaltic Pump Sample Type Grab

Begin Purge @ 1125 Water Level Before Purging: 14.23 FT BTOC TD: 25.26 FT BTOC
@ 250 mL/min Well Volume: 11.03 FT x 0.163 gal/FT = 1.8 gallons
Volume Water Removed Before Sampling: 1.00 gallons
Water Level Before Sampling: 14.65 FT BTOC
Water Level After Sampling: 14.67 FT BTOC
Appearance of Sample: clear

FIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	1130	1135	1140		1145
Volume Discharge	gals	.25	.50	.75		1.00
pH	Standard	6.57	6.63	6.61		6.62
Spec. Cond.	mS/CM	0.791	0.774	0.777		0.781
Turbidity	NTU	5.63	5.77	5.76		5.77
Temperature	°C	19.74	19.79	19.77		19.76
Pump Rate	mL/min	250	250	250		250
Water Level	FT BTOC	14.61	14.64	14.65		14.67

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	2 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	2 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: DUP-01 collected

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump

Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No.: 130-2086-05WEATHER CONDITIONSTemperature 91° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-17 Sample No. LMW-17Sample Date 5-30-23 Time 1110 Sample By JTBSample Method Peristaltic Pump Sample Type GrabBegin Purge @ 1050 Water Level Before Purgng: 16.09 FT BTOC TD: 25.44 FT BTOC@ 250 mL/min Well Volume: 9.35 FT x 0.653 gal/FT = 1.50 gallonsVolume Water Removed Before Sampling: 1.00 gallonsWater Level Before Sampling: 16.31 FT BTOCWater Level After Sampling: 16.32 FT BTOCAppearance of Sample: clearFIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1055</u>	<u>1100</u>	<u>1105</u>		<u>1110</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>		<u>1.00</u>
pH	Standard	<u>6.74</u>	<u>6.77</u>	<u>6.74</u>		<u>6.75</u>
Spec. Cond.	mS/CM	<u>0.912</u>	<u>0.934</u>	<u>0.937</u>		<u>0.941</u>
Turbidity	NTU	<u>6.72</u>	<u>6.8L</u>	<u>6.89</u>		<u>6.89</u>
Temperature	°C	<u>20.34</u>	<u>20.31</u>	<u>20.32</u>		<u>20.34</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>		<u>250</u>
Water Level	FT BTOC	<u>16.26</u>	<u>16.30</u>	<u>16.31</u>		<u>16.32</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE	Peristaltic Pump	Air-Lift Pump
Stainless Steel	Submersible Pump	Other _____
Teflon	Hand Pump	



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No.: 130-2086-05WEATHER CONDITIONSTemperature 90° Weather SUNNYSAMPLE INFORMATIONSample Location LMW-8 Sample No. LMW-8
Sample Date 5-30-23 Time 1040 Sample By JTB
Sample Method Peristaltic Pump Sample Type GrabBegin Purge @ 1020 Water Level Before Purging: 14.41 FT BTOTC TD: 24.05 FT BTOTC
@ 250 mL/min Well Volume: 9.64 FT x 0.163 gal/FT = 1.6 gallons
Volume Water Removed Before Sampling: 1.00 gallons
Water Level Before Sampling: 14.77 FT BTOTC
Water Level After Sampling: 14.77 FT BTOTC
Appearance of Sample: clearFIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>1025</u>	<u>1030</u>	<u>1035</u>		<u>1040</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>		<u>1.00</u>
pH	Standard	<u>6.74</u>	<u>6.77</u>	<u>6.78</u>		<u>6.79</u>
Spec. Cond.	mS/CM	<u>1139</u>	<u>1,167</u>	<u>1,174</u>		<u>1,177</u>
Turbidity	NTU	<u>5.61</u>	<u>5.13</u>	<u>5.16</u>		<u>5.21</u>
Temperature	°C	<u>20.0</u>	<u>20.07</u>	<u>20.07</u>		<u>20.05</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>		<u>250</u>
Water Level	FT BTOTC	<u>14.71</u>	<u>14.76</u>	<u>14.77</u>		<u>14.77</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>ND</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Peristaltic Pump Air-Lift Pump
Stainless Steel Submersible Pump Other _____
Teflon Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No.: 130-2086-05WEATHER CONDITIONSTemperature 90° Weather SUNNYSAMPLE INFORMATIONSample Location PMW-19R Sample No. PMW-19RSample Date 5-30-23 Time 1005 Sample By JTBSample Method Peristaltic Pump Sample Type GrabBegin Purge @ 0945 Water Level Before Purging: 19.98 FT BTOC TD: 22.69 FT BTOC@ 250 mL/min Well Volume: 2.71 FT x 0.163 gal/FT = 0.45 gallonsVolume Water Removed Before Sampling: 1.00 gallonsWater Level Before Sampling: 20.48 FT BTOCWater Level After Sampling: 20.47 FT BTOCAppearance of Sample: clearFIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0950</u>	<u>0955</u>	<u>1000</u>		<u>1005</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>		<u>1.00</u>
pH	Standard	<u>6.81</u>	<u>6.77</u>	<u>6.78</u>		<u>6.79</u>
Spec. Cond.	S/CM	<u>1.346</u>	<u>1.351</u>	<u>1.353</u>		<u>1.357</u>
Turbidity	NTU	<u>5.63</u>	<u>5.71</u>	<u>5.73</u>		<u>5.71</u>
Temperature	°C	<u>19.67</u>	<u>19.72</u>	<u>19.73</u>		<u>19.74</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>		<u>250</u>
Water Level	FT BTOC	<u>20.39</u>	<u>20.46</u>	<u>20.48</u>		<u>20.47</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	<u>NO</u>	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5				
6				
7				
8				

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE	Peristaltic Pump	Air-Lift Pump
Stainless Steel	Submersible Pump	Other _____
Teflon	Hand Pump	



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Exide North CAMU Groundwater Monitoring Project No.: 130-2086-05WEATHER CONDITIONSTemperature 89° Weather cloudySAMPLE INFORMATIONSample Location MW-45 Sample No. MW-45/MS-01/MSD-01Sample Date 5-30-23 Time 0930 Sample By JTBSample Method Peristaltic Pump Sample Type GrabBegin Purge @ 0905 Water Level Before Purging: 13.03 FT BTOC TD: 22.57 FT BTOC@ 250 mL/min Well Volume: 9.54 FT x 0.163 gal/FT = 1.60 gallonsWater Level Before Sampling: 13.40 FT BTOCWater Level After Sampling: 13.41 FT BTOCAppearance of Sample: clearFIELD MEASUREMENTS

Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	<u>0910</u>	<u>0915</u>	<u>0920</u>	<u>0925</u>	<u>0930</u>
Volume Discharge	gals	<u>.25</u>	<u>.50</u>	<u>.75</u>	<u>1.0</u>	<u>1.25</u>
pH	Standard	<u>6.74</u>	<u>7.07</u>	<u>7.06</u>	<u>7.09</u>	<u>7.07</u>
Spec. Cond.	mS/CM	<u>0.867</u>	<u>0.874</u>	<u>0.879</u>	<u>0.886</u>	<u>0.891</u>
Turbidity	NTU	<u>5.26</u>	<u>3.41</u>	<u>3.47</u>	<u>3.37</u>	<u>3.36</u>
Temperature	°C	<u>19.74</u>	<u>19.84</u>	<u>19.86</u>	<u>19.87</u>	<u>19.88</u>
Pump Rate	mL/min	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Water Level	FT BTOC	<u>13.27</u>	<u>13.34</u>	<u>13.37</u>	<u>13.40</u>	<u>13.41</u>

LABORATORY CONTAINERS

Sub-Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO ₃
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO ₃
3				
4				
5		RSP		
6				
7				
8				

REMARKS: MS-01/MSD-01 collected.

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
TeflonPeristaltic Pump
Submersible Pump
Hand PumpAir-Lift Pump
Other _____

APPENDIX C

**Groundwater Laboratory Analytical
Results**



right solutions.
right partner.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 26, 2023

Rahel Pommerenke
WSP Golder
701 Emerson Road Suite 250
Creve Coeur, MO 63141

Work Order: **HS23031023**

Laboratory Results for: **Frisco CDC GW North CAMU**

Dear Rahel Pommerenke,

ALS Environmental received 12 sample(s) on Mar 17, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Dane J. Wacasey".

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

**TRRP Laboratory Data
Package Cover Page**

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

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [] TCEQ or [] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group	LRC Date:03/26/2023						
Project Name: Frisco CDC GW North CAMU	Laboratory Job Number: HS23031023						
Reviewer Name: Dane Wacasey	Prep Batch Number(s): 191050,191186,191187,191223,191242						
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 03/26/2023				
Project Name: Frisco CDC GW North CAMU			Laboratory Job Number: HS23031023				
Reviewer Name: Dane Wacasey			Prep Batch Number(s): 191050,191186,191187,191223,191242				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		1
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?				X	
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?				X	
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

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

Laboratory Review Checklist: Exception Reports	
Laboratory Name: ALS Laboratory Group	LRC Date: 03/26/2023
Project Name: Frisco CDC GW North CAMU	Laboratory Job Number: HS23031023
Reviewer Name: Dane Wacasey	Prep Batch Number(s): 191050,191186,191187,191223,191242
ER# ^s	Description
1	See Run Log and CCB Exceptions
Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).	

FORM 13 - ANALYSIS RUN LOG

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023
 Start Date: 23-Mar-2023 End Date: 24-Mar-2023

Run ID:ICPMS06_430778
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	23-Mar-2023 11:16	032_ICV.d	AG AS BA CD CR CU PB SB SE ZN
LLICV2	1	23-Mar-2023 11:18	033LCV2.d	AG AS BA CD CR CU PB SB SE ZN
LLICV5	1	23-Mar-2023 11:20	034LCV5.d	AG AS BA CD CR CU PB SB SE ZN
ICB	1	23-Mar-2023 11:22	035_ICB.d	AG AS BA CD CR CU PB SB SE ZN
ICSA	1	23-Mar-2023 11:28	037ICSA.d	AG AS BA CD CR CU PB SB SE ZN
ICSAB	1	23-Mar-2023 11:30	038ICSB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 1	1	23-Mar-2023 11:38	041_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 1	1	23-Mar-2023 11:40	042_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 2	1	23-Mar-2023 12:03	053_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 2	1	23-Mar-2023 12:05	054_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 3	1	23-Mar-2023 12:25	063_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 3	1	23-Mar-2023 12:27	064_CCB.d	AG AS BA CD CR CU PB SB SE ZN
ICCV 4	1	23-Mar-2023 13:19	086_ICV.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV2	1	23-Mar-2023 13:21	087LCV2.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV5	1	23-Mar-2023 13:23	088LCV5.d	AG AS BA CD CR CU PB SB SE ZN
ICCB 4	1	23-Mar-2023 13:25	089_ICB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 5	1	23-Mar-2023 13:30	091_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 5	1	23-Mar-2023 13:32	092_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 6	1	23-Mar-2023 13:56	103_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 6	1	23-Mar-2023 13:58	104_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 7	1	23-Mar-2023 14:21	115_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 7	1	23-Mar-2023 14:23	116_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 8	1	23-Mar-2023 14:43	125_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 8	1	23-Mar-2023 14:45	126_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 9	1	23-Mar-2023 15:09	137_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 9	1	23-Mar-2023 15:11	138_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 10	1	23-Mar-2023 15:32	148_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 10	1	23-Mar-2023 15:34	149_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 11	1	23-Mar-2023 16:07	160_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 11	1	23-Mar-2023 16:09	161_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 12	1	23-Mar-2023 16:37	172_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 12	1	23-Mar-2023 16:39	173_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 13	1	23-Mar-2023 17:03	184_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 13	1	23-Mar-2023 17:05	185_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 14	1	23-Mar-2023 17:31	196_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 14	1	23-Mar-2023 17:33	197_CCB.d	AG AS BA CD CR CU PB SB SE ZN
MBLK-191223	1	23-Mar-2023 17:35	198SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LCS-191223	1	23-Mar-2023 17:37	199SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45	1	23-Mar-2023 17:39	200SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45SD	5	23-Mar-2023 17:41	201SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45MS	1	23-Mar-2023 17:43	202SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45MSD	1	23-Mar-2023 17:45	203SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45PDS	1	23-Mar-2023 17:47	204SMPL.d	AG AS BA CD CR CU PB SB SE ZN
PMW-19R	1	23-Mar-2023 17:49	205SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-8	1	23-Mar-2023 17:51	206SMPL.d	AG AS BA CD CR CU PB SB SE ZN
CCV 15	1	23-Mar-2023 17:56	208_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 15	1	23-Mar-2023 17:58	209_CCB.d	AG AS BA CD CR CU PB SB SE ZN
LMW-17	1	23-Mar-2023 18:01	210SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-5	1	23-Mar-2023 18:03	211SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-21	1	23-Mar-2023 18:05	212SMPL.d	AG AS BA CD CR CU PB SB SE ZN

FORM 13 - ANALYSIS RUN LOG

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023
 Start Date: 23-Mar-2023 End Date: 24-Mar-2023

Run ID:ICPMS06_430778
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analytes
PMW-20R	1	23-Mar-2023 18:07	213SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-41	1	23-Mar-2023 18:09	214SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-47	1	23-Mar-2023 18:11	215SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-9R	1	23-Mar-2023 18:13	216SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-22	1	23-Mar-2023 18:15	217SMPL.d	AG AS BA CD CR CU PB SB SE ZN
DUP-01	1	23-Mar-2023 18:17	218SMPL.d	AG AS BA CD CR CU PB SB SE ZN
CCV 16	1	23-Mar-2023 18:21	220_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 16	1	23-Mar-2023 18:23	221_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 17	1	23-Mar-2023 18:50	232_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 17	1	23-Mar-2023 18:52	233_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 18	1	23-Mar-2023 19:13	238_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 18	1	23-Mar-2023 19:15	239_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 19	1	23-Mar-2023 19:31	247_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 19	1	23-Mar-2023 19:33	248_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 20	1	23-Mar-2023 19:51	257_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 20	1	23-Mar-2023 19:53	258_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 21	1	23-Mar-2023 20:11	267_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 21	1	23-Mar-2023 20:13	268_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 22	1	23-Mar-2023 20:29	276_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 22	1	23-Mar-2023 20:31	277_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 23	1	23-Mar-2023 20:50	286_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 23	1	23-Mar-2023 20:52	287_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 24	1	23-Mar-2023 21:14	298_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 24	1	23-Mar-2023 21:16	299_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 25	1	23-Mar-2023 21:36	308_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 25	1	23-Mar-2023 21:38	309_CCB.d	AG AS BA CD CR CU PB SB SE ZN
MBLK-191242	1	23-Mar-2023 21:40	310SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MBLKF1-191242	1	23-Mar-2023 21:42	311SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LCS-191242	1	23-Mar-2023 21:44	312SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45	1	23-Mar-2023 21:46	313SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45SD	5	23-Mar-2023 21:48	314SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45MS	1	23-Mar-2023 21:50	315SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45MSD	1	23-Mar-2023 21:52	316SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-45PDS	1	23-Mar-2023 21:54	317SMPL.d	AG AS BA CD CR CU PB SB SE ZN
CCV 26	1	23-Mar-2023 21:56	318_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 26	1	23-Mar-2023 21:58	319_CCB.d	AG AS BA CD CR CU PB SB SE ZN
PMW-19R	1	23-Mar-2023 22:00	320SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-8	1	23-Mar-2023 22:02	321SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-17	1	23-Mar-2023 22:04	322SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-5	1	23-Mar-2023 22:06	323SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-21	1	23-Mar-2023 22:08	324SMPL.d	AG AS BA CD CR CU PB SB SE ZN
PMW-20R	1	23-Mar-2023 22:10	325SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-41	1	23-Mar-2023 22:12	326SMPL.d	AG AS BA CD CR CU PB SB SE ZN
MW-47	1	23-Mar-2023 22:14	327SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-9R	1	23-Mar-2023 22:16	328SMPL.d	AG AS BA CD CR CU PB SB SE ZN
LMW-22	1	23-Mar-2023 22:18	329SMPL.d	AG AS BA CD CR CU PB SB SE ZN
CCV 27	1	23-Mar-2023 22:20	330_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 27	1	23-Mar-2023 22:22	331_CCB.d	AG AS BA CD CR CU PB SB SE ZN
DUP-01	1	23-Mar-2023 22:24	332SMPL.d	AG AS BA CD CR CU PB SB SE ZN
CCV 28	1	23-Mar-2023 22:35	338_CCV.d	AG AS BA CD CR CU PB SB SE ZN

FORM 13 - ANALYSIS RUN LOG

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023
 Start Date: 23-Mar-2023 End Date: 24-Mar-2023

Run ID:ICPMS06_430778
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analytes
CCB 28	1	23-Mar-2023 22:37	339_CCB.d	AG AS BA CD CR CU PB SB SE ZN
ICCV 29	1	23-Mar-2023 23:13	353_ICV.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV2	1	23-Mar-2023 23:15	354LCV2.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV5	1	23-Mar-2023 23:17	355LCV5.d	AG AS BA CD CR CU PB SB SE ZN
ICCB 29	1	23-Mar-2023 23:19	356_ICB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 30	1	23-Mar-2023 23:23	358_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 30	1	23-Mar-2023 23:25	359_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 31	1	23-Mar-2023 23:43	368_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 31	1	23-Mar-2023 23:45	369_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 32	1	23-Mar-2023 23:55	374_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 32	1	23-Mar-2023 23:57	375_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 33	1	24-Mar-2023 00:14	384_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 33	1	24-Mar-2023 00:16	385_CCB.d	AG AS BA CD CR CU PB SB SE ZN
CCV 34	1	24-Mar-2023 00:34	394_CCV.d	AG AS BA CD CR CU PB SB SE ZN
CCB 34	1	24-Mar-2023 00:36	395_CCB.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV2	1	24-Mar-2023 00:38	396LCV2.d	AG AS BA CD CR CU PB SB SE ZN
LLCCV5	1	24-Mar-2023 00:40	397LCV5.d	AG AS BA CD CR CU PB SB SE ZN
ICSA	1	24-Mar-2023 00:42	398ICSA.d	AG AS BA CD CR CU PB SB SE ZN
ICSAB	1	24-Mar-2023 00:44	399ICSB.d	AG AS BA CD CR CU PB SB SE ZN

CCB EXCEPTIONS REPORT

Client: WSP Golder **Run ID:**ICPMS06_430778
Project: Frisco CDC GW North CAMU **Instrument:**ICPMS06
WorkOrder: HS23031023 **Method:**SW6020A

ICCB 4	Date: 23-Mar-2023 13:25	Seq: 7190937	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.421	0.4	4
CCB 6	Date: 23-Mar-2023 13:58	Seq: 7190952	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.426	0.4	4
CCB 7	Date: 23-Mar-2023 14:23	Seq: 7191118	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.457	0.4	4
CCB 8	Date: 23-Mar-2023 14:45	Seq: 7191250	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.426	0.4	4
CCB 9	Date: 23-Mar-2023 15:11	Seq: 7191297	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.608	0.4	4
CCB 10	Date: 23-Mar-2023 15:34	Seq: 7191498	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.497	0.4	4
CCB 11	Date: 23-Mar-2023 16:09	Seq: 7191605	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.59	0.4	4
CCB 12	Date: 23-Mar-2023 16:39	Seq: 7191711	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.406	0.4	4
CCB 13	Date: 23-Mar-2023 17:05	Seq: 7191810	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.416	0.4	4
CCB 15	Date: 23-Mar-2023 17:58	Seq: 7191851	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.464	0.4	4
CCB 18	Date: 23-Mar-2023 19:15	Seq: 7192479	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	0.468	0.4	4
CCB 34	Date: 24-Mar-2023 00:36	Seq: 7192634	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Chromium	-1.175	0.4	4

Client: WSP Golder
Project: Frisco CDC GW North CAMU
Work Order: HS23031023

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031023-01	MW-45	Groundwater		15-Mar-2023 09:25	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-02	PMW-19R	Groundwater		15-Mar-2023 10:00	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-03	LMW-8	Groundwater		15-Mar-2023 10:35	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-04	LMW-17	Groundwater		15-Mar-2023 11:00	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-05	LMW-5	Groundwater		15-Mar-2023 11:35	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-06	LMW-21	Groundwater		15-Mar-2023 12:25	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-07	PMW-20R	Groundwater		15-Mar-2023 13:00	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-08	MW-41	Groundwater		15-Mar-2023 13:40	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-09	MW-47	Groundwater		15-Mar-2023 14:35	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-10	LMW-9R	Groundwater		15-Mar-2023 15:30	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-11	LMW-22	Groundwater		16-Mar-2023 08:40	17-Mar-2023 10:00	<input type="checkbox"/>
HS23031023-12	DUP-01	Groundwater		15-Mar-2023 11:35	17-Mar-2023 10:00	<input type="checkbox"/>

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-45
 Collection Date: 15-Mar-2023 09:25

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 17:39
Arsenic	0.000533	J	0.000400	0.00200	mg/L	1	23-Mar-2023 17:39
Barium	0.0727		0.00190	0.00400	mg/L	1	23-Mar-2023 17:39
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:39
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 17:39
Copper	0.00136	J	0.00100	0.00200	mg/L	1	23-Mar-2023 17:39
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 17:39
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 17:39
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:39
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 17:39
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 21:46
Arsenic	0.000445	J	0.000400	0.00200	mg/L	1	23-Mar-2023 21:46
Barium	0.0687		0.00190	0.00400	mg/L	1	23-Mar-2023 21:46
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 21:46
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 21:46
Copper	0.00168	J	0.00100	0.00200	mg/L	1	23-Mar-2023 21:46
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 21:46
Selenium	0.00137	J	0.00110	0.00200	mg/L	1	23-Mar-2023 21:46
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 21:46
Zinc	U		0.00213	0.00400	mg/L	1	23-Mar-2023 21:46
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 16:50
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: PMW-19R
 Collection Date: 15-Mar-2023 10:00

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	0.000413	J	0.000400	0.00200	mg/L	1	23-Mar-2023 17:49
Arsenic	0.000626	J	0.000400	0.00200	mg/L	1	23-Mar-2023 17:49
Barium	0.0529		0.00190	0.00400	mg/L	1	23-Mar-2023 17:49
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:49
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 17:49
Copper	0.00153	J	0.00100	0.00200	mg/L	1	23-Mar-2023 17:49
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 17:49
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 17:49
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:49
Zinc	0.00413		0.00200	0.00400	mg/L	1	23-Mar-2023 17:49
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:00
Arsenic	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:00
Barium	0.0572		0.00190	0.00400	mg/L	1	23-Mar-2023 22:00
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:00
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:00
Copper	0.00117	J	0.00100	0.00200	mg/L	1	23-Mar-2023 22:00
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:00
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:00
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:00
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:00
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:02
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-8
 Collection Date: 15-Mar-2023 10:35

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 17:51
Arsenic	0.00295		0.000400	0.00200	mg/L	1	23-Mar-2023 17:51
Barium	0.0686		0.00190	0.00400	mg/L	1	23-Mar-2023 17:51
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:51
Chromium	0.00855		0.000400	0.00400	mg/L	1	23-Mar-2023 17:51
Copper	0.00381		0.00100	0.00200	mg/L	1	23-Mar-2023 17:51
Lead	0.00347		0.000600	0.00200	mg/L	1	23-Mar-2023 17:51
Selenium	0.00690		0.00110	0.00200	mg/L	1	23-Mar-2023 17:51
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 17:51
Zinc	0.0188		0.00200	0.00400	mg/L	1	23-Mar-2023 17:51
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:02
Arsenic	0.000507	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:02
Barium	0.0436		0.00190	0.00400	mg/L	1	23-Mar-2023 22:02
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:02
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:02
Copper	U		0.00100	0.00200	mg/L	1	23-Mar-2023 22:02
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:02
Selenium	0.00725		0.00110	0.00200	mg/L	1	23-Mar-2023 22:02
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:02
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:02
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:04
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-17
 Collection Date: 15-Mar-2023 11:00

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:01
Arsenic	0.000865	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:01
Barium	0.0801		0.00190	0.00400	mg/L	1	23-Mar-2023 18:01
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:01
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:01
Copper	0.00243		0.00100	0.00200	mg/L	1	23-Mar-2023 18:01
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 18:01
Selenium	0.00113	J	0.00110	0.00200	mg/L	1	23-Mar-2023 18:01
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:01
Zinc	0.00371	J	0.00200	0.00400	mg/L	1	23-Mar-2023 18:01
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:04
Arsenic	0.000871	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:04
Barium	0.0789		0.00190	0.00400	mg/L	1	23-Mar-2023 22:04
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:04
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:04
Copper	U		0.00100	0.00200	mg/L	1	23-Mar-2023 22:04
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:04
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:04
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:04
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:04
MERCURY BY SW7470A		Method:SW7470A					
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:06
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-5
 Collection Date: 15-Mar-2023 11:35

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:03
Arsenic	0.000670	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:03
Barium	0.0571		0.00190	0.00400	mg/L	1	23-Mar-2023 18:03
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:03
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:03
Copper	0.00155	J	0.00100	0.00200	mg/L	1	23-Mar-2023 18:03
Lead	0.00135	J	0.000600	0.00200	mg/L	1	23-Mar-2023 18:03
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 18:03
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:03
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 18:03
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:06
Arsenic	0.000510	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:06
Barium	0.0509		0.00190	0.00400	mg/L	1	23-Mar-2023 22:06
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:06
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:06
Copper	0.00112	J	0.00100	0.00200	mg/L	1	23-Mar-2023 22:06
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:06
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:06
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:06
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:06
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:08
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-21
 Collection Date: 15-Mar-2023 12:25

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:05
Arsenic	0.000621	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:05
Barium	0.0295		0.00190	0.00400	mg/L	1	23-Mar-2023 18:05
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:05
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:05
Copper	0.00299		0.00100	0.00200	mg/L	1	23-Mar-2023 18:05
Lead	0.00126	J	0.000600	0.00200	mg/L	1	23-Mar-2023 18:05
Selenium	0.00563		0.00110	0.00200	mg/L	1	23-Mar-2023 18:05
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:05
Zinc	0.00348	J	0.00200	0.00400	mg/L	1	23-Mar-2023 18:05
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:08
Arsenic	0.000648	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:08
Barium	0.0328		0.00190	0.00400	mg/L	1	23-Mar-2023 22:08
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:08
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:08
Copper	U		0.00100	0.00200	mg/L	1	23-Mar-2023 22:08
Lead	0.00110	J	0.000600	0.00200	mg/L	1	23-Mar-2023 22:08
Selenium	0.00715		0.00110	0.00200	mg/L	1	23-Mar-2023 22:08
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:08
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:08
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:09
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: PMW-20R
 Collection Date: 15-Mar-2023 13:00

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:07
Arsenic	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:07
Barium	0.0562		0.00190	0.00400	mg/L	1	23-Mar-2023 18:07
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:07
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:07
Copper	0.00145	J	0.00100	0.00200	mg/L	1	23-Mar-2023 18:07
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 18:07
Selenium	0.00233		0.00110	0.00200	mg/L	1	23-Mar-2023 18:07
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:07
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 18:07
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:10
Arsenic	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:10
Barium	0.0537		0.00190	0.00400	mg/L	1	23-Mar-2023 22:10
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:10
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:10
Copper	U		0.00100	0.00200	mg/L	1	23-Mar-2023 22:10
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:10
Selenium	0.00238		0.00110	0.00200	mg/L	1	23-Mar-2023 22:10
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:10
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:10
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:14
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-41
 Collection Date: 15-Mar-2023 13:40

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:09
Arsenic	0.000539	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:09
Barium	0.0686		0.00190	0.00400	mg/L	1	23-Mar-2023 18:09
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:09
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:09
Copper	0.00124	J	0.00100	0.00200	mg/L	1	23-Mar-2023 18:09
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 18:09
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 18:09
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:09
Zinc	0.00222	J	0.00200	0.00400	mg/L	1	23-Mar-2023 18:09
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:12
Arsenic	0.000517	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:12
Barium	0.0711		0.00190	0.00400	mg/L	1	23-Mar-2023 22:12
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:12
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:12
Copper	U		0.00100	0.00200	mg/L	1	23-Mar-2023 22:12
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:12
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:12
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:12
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 22:12
MERCURY BY SW7470A Method:SW7470A							
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:40
DISSOLVED MERCURY BY SW7470A Method:SW7470A (dissolved)							
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-47
 Collection Date: 15-Mar-2023 14:35

ANALYTICAL REPORT
 WorkOrder:HS23031023
 Lab ID:HS23031023-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U	0.000400	0.00200	mg/L	1	23-Mar-2023 18:11	
Arsenic	0.00279	0.000400	0.00200	mg/L	1	23-Mar-2023 18:11	
Barium	0.0560	0.00190	0.00400	mg/L	1	23-Mar-2023 18:11	
Cadmium	U	0.000200	0.00200	mg/L	1	23-Mar-2023 18:11	
Chromium	U	0.000400	0.00400	mg/L	1	23-Mar-2023 18:11	
Copper	U	0.00100	0.00200	mg/L	1	23-Mar-2023 18:11	
Lead	U	0.000600	0.00200	mg/L	1	23-Mar-2023 18:11	
Selenium	U	0.00110	0.00200	mg/L	1	23-Mar-2023 18:11	
Silver	U	0.000200	0.00200	mg/L	1	23-Mar-2023 18:11	
Zinc	U	0.00200	0.00400	mg/L	1	23-Mar-2023 18:11	
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U	0.000400	0.00200	mg/L	1	23-Mar-2023 22:14	
Arsenic	0.00247	0.000400	0.00200	mg/L	1	23-Mar-2023 22:14	
Barium	0.0536	0.00190	0.00400	mg/L	1	23-Mar-2023 22:14	
Cadmium	U	0.000200	0.00200	mg/L	1	23-Mar-2023 22:14	
Chromium	U	0.000400	0.00400	mg/L	1	23-Mar-2023 22:14	
Copper	U	0.00100	0.00200	mg/L	1	23-Mar-2023 22:14	
Lead	U	0.000600	0.00200	mg/L	1	23-Mar-2023 22:14	
Selenium	U	0.00110	0.00200	mg/L	1	23-Mar-2023 22:14	
Silver	U	0.000200	0.00200	mg/L	1	23-Mar-2023 22:14	
Zinc	U	0.00200	0.00400	mg/L	1	23-Mar-2023 22:14	
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U	0.0000300	0.000200	mg/L	1	22-Mar-2023 17:42	
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U	0.0000300	0.000200	mg/L	1	20-Mar-2023 16:40	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-9R
 Collection Date: 15-Mar-2023 15:30

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:13
Arsenic	0.00152	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:13
Barium	0.0303		0.00190	0.00400	mg/L	1	23-Mar-2023 18:13
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:13
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:13
Copper	0.00476		0.00100	0.00200	mg/L	1	23-Mar-2023 18:13
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 18:13
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 18:13
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:13
Zinc	0.00213	J	0.00200	0.00400	mg/L	1	23-Mar-2023 18:13
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:16
Arsenic	0.00128	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:16
Barium	0.0287		0.00190	0.00400	mg/L	1	23-Mar-2023 22:16
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:16
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:16
Copper	0.00463		0.00100	0.00200	mg/L	1	23-Mar-2023 22:16
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:16
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:16
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:16
Zinc	0.00227	J	0.00200	0.00400	mg/L	1	23-Mar-2023 22:16
MERCURY BY SW7470A		Method:SW7470A					
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:44
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-22
 Collection Date: 16-Mar-2023 08:40

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	0.000603	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:15
Arsenic	0.00180	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:15
Barium	0.0721		0.00190	0.00400	mg/L	1	23-Mar-2023 18:15
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:15
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:15
Copper	0.00110	J	0.00100	0.00200	mg/L	1	23-Mar-2023 18:15
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 18:15
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 18:15
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:15
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 18:15
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	0.000601	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:18
Arsenic	0.00175	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:18
Barium	0.0718		0.00190	0.00400	mg/L	1	23-Mar-2023 22:18
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:18
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:18
Copper	0.00160	J	0.00100	0.00200	mg/L	1	23-Mar-2023 22:18
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:18
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:18
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:18
Zinc	0.00437		0.00200	0.00400	mg/L	1	23-Mar-2023 22:18
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:46
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	20-Mar-2023 16:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: DUP-01
 Collection Date: 15-Mar-2023 11:35

ANALYTICAL REPORT

WorkOrder:HS23031023
 Lab ID:HS23031023-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 18:17
Arsenic	0.000484	J	0.000400	0.00200	mg/L	1	23-Mar-2023 18:17
Barium	0.0482		0.00190	0.00400	mg/L	1	23-Mar-2023 18:17
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:17
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 18:17
Copper	0.00121	J	0.00100	0.00200	mg/L	1	23-Mar-2023 18:17
Lead	0.000986	J	0.000600	0.00200	mg/L	1	23-Mar-2023 18:17
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 18:17
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 18:17
Zinc	U		0.00200	0.00400	mg/L	1	23-Mar-2023 18:17
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					Prep:SW3010A / 23-Mar-2023 Analyst: JC
Antimony	U		0.000400	0.00200	mg/L	1	23-Mar-2023 22:24
Arsenic	0.000500	J	0.000400	0.00200	mg/L	1	23-Mar-2023 22:24
Barium	0.0496		0.00190	0.00400	mg/L	1	23-Mar-2023 22:24
Cadmium	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:24
Chromium	U		0.000400	0.00400	mg/L	1	23-Mar-2023 22:24
Copper	0.00117	J	0.00100	0.00200	mg/L	1	23-Mar-2023 22:24
Lead	U		0.000600	0.00200	mg/L	1	23-Mar-2023 22:24
Selenium	U		0.00110	0.00200	mg/L	1	23-Mar-2023 22:24
Silver	U		0.000200	0.00200	mg/L	1	23-Mar-2023 22:24
Zinc	0.00205	J	0.00200	0.00400	mg/L	1	23-Mar-2023 22:24
MERCURY BY SW7470A		Method:SW7470A					Prep:SW7470A / 22-Mar-2023 Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	22-Mar-2023 17:47
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)					Prep:SW7470A / 20-Mar-2023 Analyst: JS
Mercury	0.0000990	J	0.0000300	0.000200	mg/L	1	20-Mar-2023 16:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log**Client:** WSP Golder**Project:** Frisco CDC GW North CAMU**WorkOrder:** HS23031023**Batch ID:** 191050**Start Date:** 20 Mar 2023 09:00**End Date:** 20 Mar 2023 12:00**Method:** MERCURY PREP BY 7470A - DISSOLVED**Prep Code:** HG_W_DISSPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031023-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 191186**Start Date:** 22 Mar 2023 10:00**End Date:** 22 Mar 2023 13:00**Method:** MERCURY PREP BY 7470A- WATER**Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031023-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-06		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 191187**Start Date:** 22 Mar 2023 10:00**End Date:** 22 Mar 2023 13:00**Method:** MERCURY PREP BY 7470A- WATER**Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031023-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Weight / Prep Log**Client:** WSP Golder**Project:** Frisco CDC GW North CAMU**WorkOrder:** HS23031023**Batch ID:** 191223**Start Date:** 23 Mar 2023 11:30**End Date:** 23 Mar 2023 15:30**Method:** WATER - SW3010A**Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031023-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 191242**Start Date:** 23 Mar 2023 14:00**End Date:** 23 Mar 2023 18:00**Method:** DISS METALS PREP - WATER - SW3010A**Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031023-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23031023-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 191050 (0)		Test Name : DISSOLVED MERCURY BY SW7470A				
HS23031023-01	MW-45	15 Mar 2023 09:25		20 Mar 2023 09:00	20 Mar 2023 16:11	1
HS23031023-02	PMW-19R	15 Mar 2023 10:00		20 Mar 2023 09:00	20 Mar 2023 16:16	1
HS23031023-03	LMW-8	15 Mar 2023 10:35		20 Mar 2023 09:00	20 Mar 2023 16:18	1
HS23031023-04	LMW-17	15 Mar 2023 11:00		20 Mar 2023 09:00	20 Mar 2023 16:19	1
HS23031023-05	LMW-5	15 Mar 2023 11:35		20 Mar 2023 09:00	20 Mar 2023 16:21	1
HS23031023-06	LMW-21	15 Mar 2023 12:25		20 Mar 2023 09:00	20 Mar 2023 16:23	1
HS23031023-07	PMW-20R	15 Mar 2023 13:00		20 Mar 2023 09:00	20 Mar 2023 16:25	1
HS23031023-08	MW-41	15 Mar 2023 13:40		20 Mar 2023 09:00	20 Mar 2023 16:26	1
HS23031023-09	MW-47	15 Mar 2023 14:35		20 Mar 2023 09:00	20 Mar 2023 16:40	1
HS23031023-10	LMW-9R	15 Mar 2023 15:30		20 Mar 2023 09:00	20 Mar 2023 16:41	1
HS23031023-11	LMW-22	16 Mar 2023 08:40		20 Mar 2023 09:00	20 Mar 2023 16:43	1
HS23031023-12	DUP-01	15 Mar 2023 11:35		20 Mar 2023 09:00	20 Mar 2023 16:45	1
Batch ID: 191186 (0)		Test Name : MERCURY BY SW7470A				
HS23031023-01	MW-45	15 Mar 2023 09:25		22 Mar 2023 10:00	22 Mar 2023 16:50	1
HS23031023-02	PMW-19R	15 Mar 2023 10:00		22 Mar 2023 10:00	22 Mar 2023 17:02	1
HS23031023-03	LMW-8	15 Mar 2023 10:35		22 Mar 2023 10:00	22 Mar 2023 17:04	1
HS23031023-04	LMW-17	15 Mar 2023 11:00		22 Mar 2023 10:00	22 Mar 2023 17:06	1
HS23031023-05	LMW-5	15 Mar 2023 11:35		22 Mar 2023 10:00	22 Mar 2023 17:08	1
HS23031023-06	LMW-21	15 Mar 2023 12:25		22 Mar 2023 10:00	22 Mar 2023 17:09	1
Batch ID: 191187 (0)		Test Name : MERCURY BY SW7470A				
HS23031023-07	PMW-20R	15 Mar 2023 13:00		22 Mar 2023 10:00	22 Mar 2023 17:14	1
HS23031023-08	MW-41	15 Mar 2023 13:40		22 Mar 2023 10:00	22 Mar 2023 17:40	1
HS23031023-09	MW-47	15 Mar 2023 14:35		22 Mar 2023 10:00	22 Mar 2023 17:42	1
HS23031023-10	LMW-9R	15 Mar 2023 15:30		22 Mar 2023 10:00	22 Mar 2023 17:44	1
HS23031023-11	LMW-22	16 Mar 2023 08:40		22 Mar 2023 10:00	22 Mar 2023 17:46	1
HS23031023-12	DUP-01	15 Mar 2023 11:35		22 Mar 2023 10:00	22 Mar 2023 17:47	1

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 191223 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS23031023-01	MW-45	15 Mar 2023 09:25		23 Mar 2023 11:30	23 Mar 2023 17:39	1
HS23031023-02	PMW-19R	15 Mar 2023 10:00		23 Mar 2023 11:30	23 Mar 2023 17:49	1
HS23031023-03	LMW-8	15 Mar 2023 10:35		23 Mar 2023 11:30	23 Mar 2023 17:51	1
HS23031023-04	LMW-17	15 Mar 2023 11:00		23 Mar 2023 11:30	23 Mar 2023 18:01	1
HS23031023-05	LMW-5	15 Mar 2023 11:35		23 Mar 2023 11:30	23 Mar 2023 18:03	1
HS23031023-06	LMW-21	15 Mar 2023 12:25		23 Mar 2023 11:30	23 Mar 2023 18:05	1
HS23031023-07	PMW-20R	15 Mar 2023 13:00		23 Mar 2023 11:30	23 Mar 2023 18:07	1
HS23031023-08	MW-41	15 Mar 2023 13:40		23 Mar 2023 11:30	23 Mar 2023 18:09	1
HS23031023-09	MW-47	15 Mar 2023 14:35		23 Mar 2023 11:30	23 Mar 2023 18:11	1
HS23031023-10	LMW-9R	15 Mar 2023 15:30		23 Mar 2023 11:30	23 Mar 2023 18:13	1
HS23031023-11	LMW-22	16 Mar 2023 08:40		23 Mar 2023 11:30	23 Mar 2023 18:15	1
HS23031023-12	DUP-01	15 Mar 2023 11:35		23 Mar 2023 11:30	23 Mar 2023 18:17	1
Batch ID: 191242 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Groundwater	
HS23031023-01	MW-45	15 Mar 2023 09:25		23 Mar 2023 14:00	23 Mar 2023 21:46	1
HS23031023-02	PMW-19R	15 Mar 2023 10:00		23 Mar 2023 14:00	23 Mar 2023 22:00	1
HS23031023-03	LMW-8	15 Mar 2023 10:35		23 Mar 2023 14:00	23 Mar 2023 22:02	1
HS23031023-04	LMW-17	15 Mar 2023 11:00		23 Mar 2023 14:00	23 Mar 2023 22:04	1
HS23031023-05	LMW-5	15 Mar 2023 11:35		23 Mar 2023 14:00	23 Mar 2023 22:06	1
HS23031023-06	LMW-21	15 Mar 2023 12:25		23 Mar 2023 14:00	23 Mar 2023 22:08	1
HS23031023-07	PMW-20R	15 Mar 2023 13:00		23 Mar 2023 14:00	23 Mar 2023 22:10	1
HS23031023-08	MW-41	15 Mar 2023 13:40		23 Mar 2023 14:00	23 Mar 2023 22:12	1
HS23031023-09	MW-47	15 Mar 2023 14:35		23 Mar 2023 14:00	23 Mar 2023 22:14	1
HS23031023-10	LMW-9R	15 Mar 2023 15:30		23 Mar 2023 14:00	23 Mar 2023 22:16	1
HS23031023-11	LMW-22	16 Mar 2023 08:40		23 Mar 2023 14:00	23 Mar 2023 22:18	1
HS23031023-12	DUP-01	15 Mar 2023 11:35		23 Mar 2023 14:00	23 Mar 2023 22:24	1

WorkOrder: HS23031023 **METHOD DETECTION / REPORTING LIMITS**
InstrumentID: HG04
Test Code: HG_Diss
Test Number: SW7470A (dissolved)
Test Name: Dissolved Mercury by SW7470A **Matrix:** Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Mercury	7439-97-6	0.000100	0.000104	0.0000300	0.000200

WorkOrder: HS23031023
InstrumentID: HG04
Test Code: HG_W
Test Number: SW7470A
Test Name: Mercury by SW7470A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Mercury	7439-97-6	0.000100	0.000104	0.0000300	0.000200

WorkOrder: HS23031023

**METHOD DETECTION /
REPORTING LIMITS**

InstrumentID: ICPMS06

Test Code: ICP_DISS

Test Number: SW6020A (dissolved)

Matrix: Aqueous

Units: mg/L

Test Name: Dissolved Metals by SW6020A

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Antimony	7440-36-0	0.00125	0.00147	0.000400	0.00200
A	Arsenic	7440-38-2	0.00125	0.00132	0.000400	0.00200
A	Barium	7440-39-3	0.00250	0.00278	0.00190	0.00400
A	Cadmium	7440-43-9	0.000500	0.000576	0.000200	0.00200
A	Chromium	7440-47-3	0.00125	0.00124	0.000400	0.00400
A	Copper	7440-50-8	0.00250	0.00301	0.00100	0.00200
A	Lead	7439-92-1	0.00125	0.00131	0.000600	0.00200
A	Selenium	7782-49-2	0.00250	0.00282	0.00110	0.00200
A	Silver	7440-22-4	0.000500	0.000581	0.000200	0.00200
A	Zinc	7440-66-6	0.00250	0.00306	0.00200	0.00400

WorkOrder: HS23031023
InstrumentID: ICPMS06
Test Code: ICP_TW
Test Number: SW6020A
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Antimony	7440-36-0	0.00125	0.00147	0.000400	0.00200
A	Arsenic	7440-38-2	0.00125	0.00132	0.000400	0.00200
A	Barium	7440-39-3	0.00250	0.00278	0.00190	0.00400
A	Cadmium	7440-43-9	0.000500	0.000576	0.000200	0.00200
A	Chromium	7440-47-3	0.00125	0.00124	0.000400	0.00400
A	Copper	7440-50-8	0.00250	0.00301	0.00100	0.00200
A	Lead	7439-92-1	0.00125	0.00131	0.000600	0.00200
A	Selenium	7782-49-2	0.00250	0.00282	0.00110	0.00200
A	Silver	7440-22-4	0.000500	0.000581	0.000200	0.00200
A	Zinc	7440-66-6	0.00250	0.00306	0.00200	0.00400

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191050 (0)		Instrument: HG04		Method: DISSOLVED MERCURY BY SW7470A (DISSOLVED)			
MBLK	Sample ID: MBLK-191050			Units: mg/L Analysis Date: 20-Mar-2023 15:48			
Client ID:		Run ID: HG04_430453		SeqNo: 7184175	PrepDate: 20-Mar-2023	DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual
Mercury	U	0.000200					
LCS	Sample ID: LCS-191050			Units: mg/L Analysis Date: 20-Mar-2023 15:49			
Client ID:		Run ID: HG04_430453		SeqNo: 7184176	PrepDate: 20-Mar-2023	DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual
Mercury	0.00516	0.000200	0.005	0	103	80 - 120	
MS	Sample ID: HS23031023-01MS			Units: mg/L Analysis Date: 20-Mar-2023 16:13			
Client ID: MW-45		Run ID: HG04_430453		SeqNo: 7184186	PrepDate: 20-Mar-2023	DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual
Mercury	0.0056	0.000200	0.005	-0.000006	112	80 - 120	
MSD	Sample ID: HS23031023-01MSD			Units: mg/L Analysis Date: 20-Mar-2023 16:38			
Client ID: MW-45		Run ID: HG04_430453		SeqNo: 7184197	PrepDate: 20-Mar-2023	DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual
Mercury	0.00492	0.000200	0.005	-0.000006	98.5	80 - 120	0.0056 12.9 20
The following samples were analyzed in this batch:		HS23031023-01	HS23031023-02	HS23031023-03	HS23031023-04		
		HS23031023-05	HS23031023-06	HS23031023-07	HS23031023-08		
		HS23031023-09	HS23031023-10	HS23031023-11	HS23031023-12		

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191186 (0) **Instrument:** HG04 **Method:** MERCURY BY SW7470A

MBLK	Sample ID:	MBLK-191186	Units:	mg/L	Analysis Date: 22-Mar-2023 16:15			
Client ID:		Run ID:	HG04_430699	SeqNo:	7190103	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury U 0.000200

LCS	Sample ID:	LCS-191186	Units:	mg/L	Analysis Date: 22-Mar-2023 16:17			
Client ID:		Run ID:	HG04_430699	SeqNo:	7190104	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.00493 0.000200 0.005 0 98.6 80 - 120

MS	Sample ID:	HS23031023-01MS	Units:	mg/L	Analysis Date: 22-Mar-2023 16:59			
Client ID:	MW-45	Run ID:	HG04_430699	SeqNo:	7190123	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.00518 0.000200 0.005 -0.000006 104 75 - 125

MSD	Sample ID:	HS23031023-01MSD	Units:	mg/L	Analysis Date: 22-Mar-2023 17:01			
Client ID:	MW-45	Run ID:	HG04_430699	SeqNo:	7190124	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.00518 0.000200 0.005 -0.000006 104 75 - 125 0.00518 0 20

The following samples were analyzed in this batch:	HS23031023-01	HS23031023-02	HS23031023-03	HS23031023-04
	HS23031023-05	HS23031023-06		

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191187 (0) **Instrument:** HG04 **Method:** MERCURY BY SW7470A

MBLK	Sample ID:	MBLK-191187	Units:	mg/L	Analysis Date: 22-Mar-2023 17:11			
Client ID:		Run ID:	HG04_430699	SeqNo:	7190130	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury U 0.000200

LCS	Sample ID:	LCS-191187	Units:	mg/L	Analysis Date: 22-Mar-2023 17:13			
Client ID:		Run ID:	HG04_430699	SeqNo:	7190131	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.0052 0.000200 0.005 0 104 80 - 120

MS	Sample ID:	HS23031023-07MS	Units:	mg/L	Analysis Date: 22-Mar-2023 17:35			
Client ID:	PMW-20R	Run ID:	HG04_430699	SeqNo:	7190135	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.00592 0.000200 0.005 -0.00001 119 75 - 125

MSD	Sample ID:	HS23031023-07MSD	Units:	mg/L	Analysis Date: 22-Mar-2023 17:39			
Client ID:	PMW-20R	Run ID:	HG04_430699	SeqNo:	7190136	PrepDate:	22-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Mercury 0.00518 0.000200 0.005 -0.00001 104 75 - 125 0.00592 13.3 20

The following samples were analyzed in this batch:	HS23031023-07	HS23031023-08	HS23031023-09	HS23031023-10
	HS23031023-11	HS23031023-12		

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191223 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MLBK		Sample ID: MBLK-191223		Units: mg/L		Analysis Date: 23-Mar-2023 17:35			
Client ID:		Run ID: ICPMS06_430778		SeqNo: 7191840		PrepDate: 23-Mar-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Antimony	U	0.00200							
Arsenic	U	0.00200							
Barium	U	0.00400							
Cadmium	U	0.00200							
Chromium	0.000454	0.00400							J
Copper	U	0.00200							
Lead	U	0.00200							
Selenium	U	0.00200							
Silver	U	0.00200							
Zinc	U	0.00400							

LCS		Sample ID: LCS-191223		Units: mg/L		Analysis Date: 23-Mar-2023 17:37			
Client ID:		Run ID: ICPMS06_430778		SeqNo: 7191841		PrepDate: 23-Mar-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Antimony	0.05122	0.00200	0.05	0	102	80 - 120			
Arsenic	0.05047	0.00200	0.05	0	101	80 - 120			
Barium	0.04953	0.00400	0.05	0	99.1	80 - 120			
Cadmium	0.05007	0.00200	0.05	0	100	80 - 120			
Chromium	0.04756	0.00400	0.05	0	95.1	80 - 120			
Copper	0.05146	0.00200	0.05	0	103	80 - 120			
Lead	0.04941	0.00200	0.05	0	98.8	80 - 120			
Selenium	0.05116	0.00200	0.05	0	102	80 - 120			
Silver	0.0486	0.00200	0.05	0	97.2	80 - 120			
Zinc	0.05238	0.00400	0.05	0	105	80 - 120			

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191223 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MS	Sample ID:	HS23031023-01MS		Units:	mg/L		Analysis Date: 23-Mar-2023 17:43			
Client ID:	MW-45	Run ID: ICPMS06_430778		SeqNo:	7191844	PrepDate:	23-Mar-2023	DF:	1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Antimony	0.05112	0.00200	0.05	0.000339	102	80 - 120				
Arsenic	0.05004	0.00200	0.05	0.000533	99.0	80 - 120				
Barium	0.1271	0.00400	0.05	0.07274	109	80 - 120				
Cadmium	0.04962	0.00200	0.05	0.00004	99.2	80 - 120				
Chromium	0.0468	0.00400	0.05	-0.000739	95.1	80 - 120				
Copper	0.05101	0.00200	0.05	0.001365	99.3	80 - 120				
Lead	0.04932	0.00200	0.05	0.000346	98.0	80 - 120				
Selenium	0.05164	0.00200	0.05	0.000721	102	80 - 120				
Silver	0.04754	0.00200	0.05	0.000046	95.0	80 - 120				
Zinc	0.05218	0.00400	0.05	0.001112	102	80 - 120				

MSD	Sample ID:	HS23031023-01MSD		Units:	mg/L		Analysis Date: 23-Mar-2023 17:45			
Client ID:	MW-45	Run ID: ICPMS06_430778		SeqNo:	7191845	PrepDate:	23-Mar-2023	DF:	1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Antimony	0.05187	0.00200	0.05	0.000339	103	80 - 120	0.05112	1.45	20	
Arsenic	0.05116	0.00200	0.05	0.000533	101	80 - 120	0.05004	2.22	20	
Barium	0.1281	0.00400	0.05	0.07274	111	80 - 120	0.1271	0.773	20	
Cadmium	0.05036	0.00200	0.05	0.00004	101	80 - 120	0.04962	1.49	20	
Chromium	0.04707	0.00400	0.05	-0.000739	95.6	80 - 120	0.0468	0.594	20	
Copper	0.05075	0.00200	0.05	0.001365	98.8	80 - 120	0.05101	0.521	20	
Lead	0.05002	0.00200	0.05	0.000346	99.3	80 - 120	0.04932	1.4	20	
Selenium	0.05168	0.00200	0.05	0.000721	102	80 - 120	0.05164	0.0697	20	
Silver	0.04807	0.00200	0.05	0.000046	96.0	80 - 120	0.04754	1.1	20	
Zinc	0.05194	0.00400	0.05	0.001112	102	80 - 120	0.05218	0.471	20	

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191223 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

PDS	Sample ID:	HS23031023-01PDS		Units: mg/L		Analysis Date: 23-Mar-2023 17:47						
Client ID:	MW-45	Run ID: ICPMS06_430778		SeqNo: 7191846	PrepDate: 23-Mar-2023	DF: 1	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Analyte		Result	MQL	SPK Val								
Antimony		0.0985	0.00200	0.1	0.000339	98.2	75 - 125					
Arsenic		0.09943	0.00200	0.1	0.000533	98.9	75 - 125					
Barium		0.1699	0.00400	0.1	0.07274	97.1	75 - 125					
Cadmium		0.09793	0.00200	0.1	0.00004	97.9	75 - 125					
Chromium		0.09392	0.00400	0.1	-0.000739	94.7	75 - 125					
Copper		0.09782	0.00200	0.1	0.001365	96.5	75 - 125					
Lead		0.09899	0.00200	0.1	0.000346	98.6	75 - 125					
Selenium		0.1003	0.00200	0.1	0.000721	99.6	75 - 125					
Silver		0.09664	0.00200	0.1	0.000046	96.6	75 - 125					
Zinc		0.09968	0.00400	0.1	0.001112	98.6	75 - 125					

SD	Sample ID:	HS23031023-01SD		Units: mg/L		Analysis Date: 23-Mar-2023 17:41						
Client ID:	MW-45	Run ID: ICPMS06_430778		SeqNo: 7191843	PrepDate: 23-Mar-2023	DF: 5	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Analyte		Result	MQL	SPK Val								
Antimony		U	0.0100							0.000339	0	10
Arsenic		U	0.0100							0.000533	0	10
Barium		0.07301	0.0200							0.07274	0.37	10
Cadmium		U	0.0100							0.00004	0	10
Chromium		0.007571	0.0200							-0.000739	0	10
Copper		U	0.0100							0.001365	0	10
Lead		U	0.0100							0.000346	0	10
Selenium		U	0.0100							0.000721	0	10
Silver		U	0.0100							0.000046	0	10
Zinc		U	0.0200							0.001112	0	10

The following samples were analyzed in this batch:	HS23031023-01	HS23031023-02	HS23031023-03	HS23031023-04
	HS23031023-05	HS23031023-06	HS23031023-07	HS23031023-08
	HS23031023-09	HS23031023-10	HS23031023-11	HS23031023-12

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191242 (0)	Instrument: ICPMS06	Method: DISSOLVED METALS BY SW6020A (DISSOLVED)
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Analyte	Result	MQL	SPK Val	SPK Ref	Control	RPD Ref	RPD
				Value	%REC	Limit	Value
Antimony	U	0.00200					
Arsenic	U	0.00200					
Barium	U	0.00400					
Cadmium	U	0.00200					
Chromium	U	0.00400					
Copper	U	0.00200					
Lead	U	0.00200					
Selenium	U	0.00200					
Silver	U	0.00200					
Zinc	U	0.00400					

MBLK	Sample ID: MBLKF1-191242	Units: mg/L	Analysis Date: 23-Mar-2023 21:42
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Analyte	Result	MQL	SPK Val	SPK Ref	Control	RPD Ref	RPD
				Value	%REC	Limit	Value
Antimony	U	0.00200					
Arsenic	U	0.00200					
Barium	U	0.00400					
Cadmium	U	0.00200					
Chromium	U	0.00400					
Copper	U	0.00200					
Lead	U	0.00200					
Selenium	U	0.00200					
Silver	U	0.00200					
Zinc	U	0.00400					

MBLK	Sample ID: MBLK-191242	Units: mg/L	Analysis Date: 23-Mar-2023 21:40
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Analyte	Result	MQL	SPK Val	SPK Ref	Control	RPD Ref	RPD
				Value	%REC	Limit	Value
Antimony	U	0.00200					
Arsenic	U	0.00200					
Barium	U	0.00400					
Cadmium	U	0.00200					
Chromium	U	0.00400					
Copper	U	0.00200					
Lead	U	0.00200					
Selenium	U	0.00200					
Silver	U	0.00200					
Zinc	U	0.00400					

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191242 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)				
LCS	Sample ID: LCS-191242			Units: mg/L		Analysis Date: 23-Mar-2023 21:44		
Client ID:		Run ID: ICPMS06_430778		SeqNo: 7192575	PrepDate: 23-Mar-2023	DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Antimony	0.05009	0.00200	0.05	0	100	80 - 120		
Arsenic	0.0481	0.00200	0.05	0	96.2	80 - 120		
Barium	0.04653	0.00400	0.05	0	93.1	80 - 120		
Cadmium	0.04716	0.00200	0.05	0	94.3	80 - 120		
Chromium	0.04471	0.00400	0.05	0	89.4	80 - 120		
Copper	0.04792	0.00200	0.05	0	95.8	80 - 120		
Lead	0.04808	0.00200	0.05	0	96.2	80 - 120		
Selenium	0.04856	0.00200	0.05	0	97.1	80 - 120		
Silver	0.04692	0.00200	0.05	0	93.8	80 - 120		
Zinc	0.04838	0.00400	0.05	0	96.8	80 - 120		

MS	Sample ID: HS23031023-01MS			Units: mg/L		Analysis Date: 23-Mar-2023 21:50		
Client ID: MW-45		Run ID: ICPMS06_430778		SeqNo: 7192578	PrepDate: 23-Mar-2023	DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Antimony	0.05063	0.00200	0.05	0.000295	101	75 - 125		
Arsenic	0.04854	0.00200	0.05	0.000445	96.2	75 - 125		
Barium	0.1177	0.00400	0.05	0.0687	97.9	75 - 125		
Cadmium	0.04687	0.00200	0.05	0.000035	93.7	75 - 125		
Chromium	0.04466	0.00400	0.05	-0.000709	90.7	75 - 125		
Copper	0.04811	0.00200	0.05	0.001685	92.9	75 - 125		
Lead	0.04783	0.00200	0.05	0.000108	95.4	75 - 125		
Selenium	0.0494	0.00200	0.05	0.001369	96.1	75 - 125		
Silver	0.04586	0.00200	0.05	0.000018	91.7	75 - 125		
Zinc	0.04778	0.00400	0.05	0.002129	91.3	75 - 125		

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191242 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)	
MSD	Sample ID: HS23031023-01MSD		Units: mg/L		Analysis Date: 23-Mar-2023 21:52
Client ID: MW-45	Run ID: ICPMS06_430778		SeqNo: 7192579	PrepDate: 23-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD Limit Qual
Antimony	0.04973	0.00200	0.05	0.000295 98.9	75 - 125 0.05063 1.78 20
Arsenic	0.04859	0.00200	0.05	0.000445 96.3	75 - 125 0.04854 0.0885 20
Barium	0.1171	0.00400	0.05	0.0687 96.7	75 - 125 0.1177 0.504 20
Cadmium	0.04674	0.00200	0.05	0.000035 93.4	75 - 125 0.04687 0.282 20
Chromium	0.04408	0.00400	0.05	-0.000709 89.6	75 - 125 0.04466 1.31 20
Copper	0.04639	0.00200	0.05	0.001685 89.4	75 - 125 0.04811 3.64 20
Lead	0.04706	0.00200	0.05	0.000108 93.9	75 - 125 0.04783 1.63 20
Selenium	0.04943	0.00200	0.05	0.001369 96.1	75 - 125 0.0494 0.0607 20
Silver	0.04638	0.00200	0.05	0.000018 92.7	75 - 125 0.04586 1.13 20
Zinc	0.04776	0.00400	0.05	0.002129 91.3	75 - 125 0.04778 0.044 20
PDS	Sample ID: HS23031023-01PDS		Units: mg/L		Analysis Date: 23-Mar-2023 21:54
Client ID: MW-45	Run ID: ICPMS06_430778		SeqNo: 7192580	PrepDate: 23-Mar-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD Limit Qual
Antimony	0.09562	0.00200	0.1	0.000295 95.3	75 - 125
Arsenic	0.09591	0.00200	0.1	0.000445 95.5	75 - 125
Barium	0.1633	0.00400	0.1	0.0687 94.6	75 - 125
Cadmium	0.09357	0.00200	0.1	0.000035 93.5	75 - 125
Chromium	0.08686	0.00400	0.1	-0.000709 87.6	75 - 125
Copper	0.09132	0.00200	0.1	0.001685 89.6	75 - 125
Lead	0.09487	0.00200	0.1	0.000108 94.8	75 - 125
Selenium	0.09471	0.00200	0.1	0.001369 93.3	75 - 125
Silver	0.09153	0.00200	0.1	0.000018 91.5	75 - 125
Zinc	0.09408	0.00400	0.1	0.002129 92.0	75 - 125

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

QC BATCH REPORT

Batch ID: 191242 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)		
SD	Sample ID: HS23031023-01SD	Units: mg/L		Analysis Date: 23-Mar-2023 21:48		
Client ID: MW-45	Run ID: ICPMS06_430778	SeqNo: 7192577	PrepDate: 23-Mar-2023	DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	Control Limit	RPD Ref Value %D
Antimony	U	0.0100		0.000295	0	10
Arsenic	U	0.0100		0.000445	0	10
Barium	0.06847	0.0200		0.0687	0.339	10
Cadmium	U	0.0100		0.000035	0	10
Chromium	0.01302	0.0200		-0.000709	0	10
Copper	U	0.0100		0.001685	0	10
Lead	U	0.0100		0.000108	0	10
Selenium	U	0.0100		0.001369	0	10
Silver	U	0.0100		0.000018	0	10
Zinc	U	0.0200		0.002129	0	10

The following samples were analyzed in this batch:

HS23031023-01	HS23031023-02	HS23031023-03	HS23031023-04
HS23031023-05	HS23031023-06	HS23031023-07	HS23031023-08
HS23031023-09	HS23031023-10	HS23031023-11	HS23031023-12

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23031023

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

Sample Receipt Checklist

Work Order ID: HS23031023

Date/Time Received:

17-Mar-2023 10:00

Client Name: Golder St Louis

Received by:

Corey GranditsCompleted By: /S/ Pares M. Giga

17-Mar-2023 11:25

Reviewed by:

eSignature

Date/Time

eSignature

Date/Time

Matrices:

GW

Carrier name:

FedEx Priority Overnight

Shipping container/cooler in good condition?

Yes No Not Present

Custody seals intact on shipping container/cooler?

Yes No Not Present

Custody seals intact on sample bottles?

Yes No Not Present

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes No Not Present

Chain of custody present?

Yes No

2 Page(s)

Chain of custody signed when relinquished and received?

Yes No

COC IDs:293917/293916

Samplers name present on COC?

Yes No

Chain of custody agrees with sample labels?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

Container/Temp Blank temperature in compliance?

Yes No

Temperature(s)/Thermometer(s):

2.2C/1.7C U/C

IR31

Cooler(s)/Kit(s):

50601

Date/Time sample(s) sent to storage:

3/17/23 11:40

Water - VOA vials have zero headspace?

Yes No

No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

--

Corrective Action:

--

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

HS23031023

WSP Golder

Frisco CDC GW North CAMU

Page 1 of 2

COC ID: 293917

ALS Project Manager:



Customer Information		Project Information													
Purchase Order	GL2040906201	Project Name	Frisco CDC North CAMU GW Annual	A	6020A/7470A - TOT Metals (11) (ANNUAL) [120ml PHNO3]										
Work Order		Project Number	GL2040906201	B	6020A/7470A - DISS Metals (11) (ANNUAL) [120ml PHNO3]										
Company Name	Golder Associates	Bill To Company	WSP Golder	C	MS/MSD [2x120ml P HNO3]										
Send Report To	Gerardo Ruiz	Invoice Attn	Accounts Payable	D	--DISS Metals are field filtered--										
Address	701 Emerson Road, Suite 250	Address	701 Emerson Road Suite 250	E											
City/State/Zip	Creve Coeur, MO 63141	City/State/Zip	Creve Coeur MO 63141	F											
Phone	(314) 394-6125	Phone	(314) 984-8800	G											
Fax		Fax		H											
e-Mail Address	gerardo_ruiz@golder.com	e-Mail Address	USAAccountsPayableInvoices@golder.com	I											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-45	3-15-23	0925	Groundwa	2,8	6	X	X	X								
2	PMW-19R	3-15-23	1000	Groundwa	2,8	2	X	X									
3	LMW-8	3-15-23	1035	Groundwa	2,8	2	X	X									
4	LMW-17	3-15-23	1100	Groundwa	2,8	2	X	X									
5	LMW-5	3-15-23	1135	Groundwa	2,8	2	X	X									
6	LMW-21	3-15-23	1225	Groundwa	2,8	2	X	X									
7	PMW-20R	3-15-23	1300	Groundwa	2,8	2	X	X									
8	MW-41	3-15-23	1340	Groundwa	2,8	2	X	X									
9	MW-47	3-15-23	1435	Groundwa	2,8	2	X	X									
10	LMW-9R	3-15-23	1530	Groundwa	2,8	2	X	X									

Sampler(s) Please Print & Sign <i>JOHN BRAYTON</i>	Shipment Method <i>FEDEX</i>	Required Turnaround Time: (Check Box)	<input type="checkbox"/> Other _____	Results Due Date:
		<input type="checkbox"/> STD 10 Wk Days	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days
			<input type="checkbox"/> 24 Hour	

Relinquished by: <i>John Brayton</i>	Date: 3-16-23	Time: 1600	Received by: <i>CG 3-17-23 1000</i>	Notes: Frisco CDC North CAMU GW		
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	50601	22°	<input type="checkbox"/> Level II Std QC
				1021		<input checked="" type="checkbox"/> TRRP Checklist
						<input type="checkbox"/> Level III Std QC/Raw Data
						<input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV SV848/CLP

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

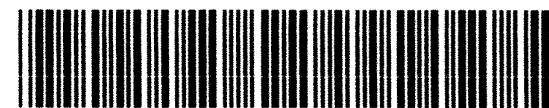
HS23031023

WSP Golder

Frisco CDC GW North CAMU

Page 2 of 2

COC ID: 293916



ALS Project Manager:

Customer Information		Project Information												
Purchase Order	GL2040906201	Project Name	Frisco CDC North CAMU GW Annual	A	6020A/7470A - TOT Metals (11) (ANNUAL) [120ml PHNO3]									
Work Order		Project Number	GL2040906201	B	6020A/7470A - DISS Metals (11) (ANNUAL) [120ml PHNO3]									
Company Name	Golder Associates	Bill To Company	WSP Golder	C	MS/MSD [2x120ml P HNO3]									
Send Report To	Gerardo Ruiz	Invoice Attn	Accounts Payable	D	-DISS Metals are field filtered-									
Address	701 Emerson Road, Suite 250	Address	701 Emerson Road Suite 250	E										
City/State/Zip	Creve Coeur, MO 63141	City/State/Zip	Creve Coeur MO 63141	F										
Phone	(314) 394-6125	Phone	(314) 984-8800	G										
Fax		Fax		H										
e-Mail Address	gerardo_ruiz@golder.com	e-Mail Address	USAccountsPayableInvoices@golder.com	I										

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LMW-22	3-16-23	0840	Groundwa	2,8	2	X	X									
2	DUP-01	3-15-23	1135	Groundwa	2,8	2	X	X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: <i>JOHN BRAYTON</i> <i>John</i>	Shipment Method: <i>FEDEX</i>	Required Turnaround Time: (Check Box)	<input type="checkbox"/> Other _____	Results Due Date:		
Relinquished by: <i>John</i>	Date: 3-16-23 Time: 1600	Received by: <i>EE 3-17-23 (00L</i>	<input type="checkbox"/> STD 10 Wk Days	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 Hour
Relinquished by:	Date:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Checked by (Laboratory):			<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist
					<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV
					<input type="checkbox"/> Level IV SW846/CLP	
					<input type="checkbox"/> Other	

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS
10450 Stancliff Rd., Suite 110
Houston, Texas 77099
Tel. +1 281 530 5656
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CUSTODY SEAL		Seal Broken By:
Date: 3/16/23	Time: _____	Date: _____
Name: <i>[Signature]</i>	Company: _____	

HUOSUTON TX 77099
(281) 530 - 5656
REF: FRISCO CDC NORTH = BO 91537 - DW

RMA: | | | | |



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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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June 12, 2023

Rahel Pommerenke
WSP Golder
701 Emerson Road Suite 250
Creve Coeur, MO 63141

Work Order: **HS23060166**

Laboratory Results for: **Frisco CDC GW North CAMU**

Dear Rahel Pommerenke,

ALS Environmental received 12 sample(s) on Jun 02, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Tyler Monroe

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

**TRRP Laboratory Data
Package Cover Page**

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

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [] TCEQ or [] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Tyler Monroe

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group			LRC Date:06/12/2023				
Project Name: Frisco CDC GW North CAMU			Laboratory Job Number: HS23060166				
Reviewer Name: Tyler Monroe			Prep Batch Number(s): 194872,194877				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?				X	
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?				X	
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group			LRC Date: 06/12/2023				
Project Name: Frisco CDC GW North CAMU			Laboratory Job Number: HS23060166				
Reviewer Name: Tyler Monroe			Prep Batch Number(s): 194872,194877				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?				X	
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?				X	
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports	
Laboratory Name: ALS Laboratory Group	LRC Date: 06/12/2023
Project Name: Frisco CDC GW North CAMU	Laboratory Job Number: HS23060166
Reviewer Name: Tyler Monroe	Prep Batch Number(s): 194872,194877
ER# ^s	Description
	No Exceptions
Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).	

Client: WSP Golder
Project: Frisco CDC GW North CAMU
Work Order: HS23060166

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23060166-01	MW-45	Groundwater		30-May-2023 09:30	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-02	PMW-19R	Groundwater		30-May-2023 10:05	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-03	LMW-8	Groundwater		30-May-2023 10:40	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-04	LMW-17	Groundwater		30-May-2023 11:10	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-05	LMW-5	Groundwater		30-May-2023 11:45	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-06	LMW-21	Groundwater		30-May-2023 12:15	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-07	PMW-20R	Groundwater		30-May-2023 13:10	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-08	MW-41	Groundwater		30-May-2023 13:45	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-09	MW-47	Groundwater		30-May-2023 14:30	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-10	LMW-9R	Groundwater		31-May-2023 08:00	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-11	LMW-22	Groundwater		31-May-2023 09:00	02-Jun-2023 09:15	<input type="checkbox"/>
HS23060166-12	DUP-01	Groundwater		30-May-2023 11:45	02-Jun-2023 09:15	<input type="checkbox"/>

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-45
 Collection Date: 30-May-2023 09:30

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000432	J	0.000400	0.00200	mg/L	1	09-Jun-2023 16:21
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 16:21
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 16:21
Selenium	0.00114	J	0.00110	0.00200	mg/L	1	09-Jun-2023 16:21
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	U		0.000400	0.00200	mg/L	1	09-Jun-2023 15:09
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:09
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:09
Selenium	0.00168	J	0.00110	0.00200	mg/L	1	09-Jun-2023 15:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: PMW-19R
 Collection Date: 30-May-2023 10:05

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000583	J	0.000400	0.00200	mg/L	1	09-Jun-2023 16:37
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 16:37
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 16:37
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 16:37
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000586	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:20
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:20
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:20
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 15:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-8
 Collection Date: 30-May-2023 10:40

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000859	J	0.000400	0.00200	mg/L	1	09-Jun-2023 16:39
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 16:39
Lead	0.000720	J	0.000600	0.00200	mg/L	1	09-Jun-2023 16:39
Selenium	0.00305		0.00110	0.00200	mg/L	1	09-Jun-2023 16:39
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000472	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:21
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:21
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:21
Selenium	0.00292		0.00110	0.00200	mg/L	1	09-Jun-2023 15:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-17
 Collection Date: 30-May-2023 11:10

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000537	J	0.000400	0.00200	mg/L	1	09-Jun-2023 16:57
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 16:57
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 16:57
Selenium	0.00114	J	0.00110	0.00200	mg/L	1	09-Jun-2023 16:57
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000566	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:23
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:23
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:23
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 15:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-5
 Collection Date: 30-May-2023 11:45

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000486	J	0.000400	0.00200	mg/L	1	09-Jun-2023 16:59
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 16:59
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 16:59
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 16:59
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000491	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:29
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:29
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:29
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 15:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-21
 Collection Date: 30-May-2023 12:15

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000756	J	0.000400	0.00200	mg/L	1	09-Jun-2023 17:01
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:01
Lead	0.00159	J	0.000600	0.00200	mg/L	1	09-Jun-2023 17:01
Selenium	0.00640		0.00110	0.00200	mg/L	1	09-Jun-2023 17:01
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000630	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:31
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:31
Lead	0.000849	J	0.000600	0.00200	mg/L	1	09-Jun-2023 15:31
Selenium	0.00606		0.00110	0.00200	mg/L	1	09-Jun-2023 15:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: PMW-20R
 Collection Date: 30-May-2023 13:10

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000456	J	0.000400	0.00200	mg/L	1	09-Jun-2023 17:03
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:03
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 17:03
Selenium	0.00139	J	0.00110	0.00200	mg/L	1	09-Jun-2023 17:03
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000446	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:33
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:33
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:33
Selenium	0.00140	J	0.00110	0.00200	mg/L	1	09-Jun-2023 15:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-41
 Collection Date: 30-May-2023 13:45

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					
Arsenic	0.00218	0.000400		0.00200	mg/L	1	09-Jun-2023 17:05
Cadmium	U	0.000200		0.00200	mg/L	1	09-Jun-2023 17:05
Lead	U	0.000600		0.00200	mg/L	1	09-Jun-2023 17:05
Selenium	U	0.00110		0.00200	mg/L	1	09-Jun-2023 17:05
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					
Arsenic	0.00356	0.000400		0.00200	mg/L	1	09-Jun-2023 15:35
Cadmium	U	0.000200		0.00200	mg/L	1	09-Jun-2023 15:35
Lead	U	0.000600		0.00200	mg/L	1	09-Jun-2023 15:35
Selenium	U	0.00110		0.00200	mg/L	1	09-Jun-2023 15:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: MW-47
 Collection Date: 30-May-2023 14:30

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.00165	J	0.000400	0.00200	mg/L	1	09-Jun-2023 17:07
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:07
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 17:07
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 17:07
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.00106	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:37
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:37
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:37
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 15:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-9R
 Collection Date: 31-May-2023 08:00

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A					
Arsenic	0.00342		0.000400	0.00200	mg/L	1	09-Jun-2023 17:09
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:09
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 17:09
Selenium	0.00199	J	0.00110	0.00200	mg/L	1	09-Jun-2023 17:09
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)					
Arsenic	0.00331		0.000400	0.00200	mg/L	1	09-Jun-2023 15:39
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:39
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:39
Selenium	0.00202		0.00110	0.00200	mg/L	1	09-Jun-2023 15:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: LMW-22
 Collection Date: 31-May-2023 09:00

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.00219		0.000400	0.00200	mg/L	1	09-Jun-2023 17:11
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:11
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 17:11
Selenium	0.00179	J	0.00110	0.00200	mg/L	1	09-Jun-2023 17:11
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.00264		0.000400	0.00200	mg/L	1	09-Jun-2023 15:41
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:41
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:41
Selenium	0.00171	J	0.00110	0.00200	mg/L	1	09-Jun-2023 15:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Golder
 Project: Frisco CDC GW North CAMU
 Sample ID: DUP-01
 Collection Date: 30-May-2023 11:45

ANALYTICAL REPORT

WorkOrder:HS23060166
 Lab ID:HS23060166-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A Method:SW6020A							
Arsenic	0.000433	J	0.000400	0.00200	mg/L	1	09-Jun-2023 17:13
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 17:13
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 17:13
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 17:13
DISSOLVED METALS BY SW6020A Method:SW6020A (dissolved)							
Arsenic	0.000455	J	0.000400	0.00200	mg/L	1	09-Jun-2023 15:43
Cadmium	U		0.000200	0.00200	mg/L	1	09-Jun-2023 15:43
Lead	U		0.000600	0.00200	mg/L	1	09-Jun-2023 15:43
Selenium	U		0.00110	0.00200	mg/L	1	09-Jun-2023 15:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

Batch ID: 194872 **Start Date:** 07 Jun 2023 13:30 **End Date:** 07 Jun 2023 13:30

Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23060166-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 194877 **Start Date:** 07 Jun 2023 13:00 **End Date:** 07 Jun 2023 13:00

Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23060166-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23060166-12		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 194872 (0)		Test Name : ICP-MS METALS BY SW6020A				
HS23060166-01	MW-45	30 May 2023 09:30		07 Jun 2023 13:30	09 Jun 2023 16:21	1
HS23060166-02	PMW-19R	30 May 2023 10:05		07 Jun 2023 13:30	09 Jun 2023 16:37	1
HS23060166-03	LMW-8	30 May 2023 10:40		07 Jun 2023 13:30	09 Jun 2023 16:39	1
HS23060166-04	LMW-17	30 May 2023 11:10		07 Jun 2023 13:30	09 Jun 2023 16:57	1
HS23060166-05	LMW-5	30 May 2023 11:45		07 Jun 2023 13:30	09 Jun 2023 16:59	1
HS23060166-06	LMW-21	30 May 2023 12:15		07 Jun 2023 13:30	09 Jun 2023 17:01	1
HS23060166-07	PMW-20R	30 May 2023 13:10		07 Jun 2023 13:30	09 Jun 2023 17:03	1
HS23060166-08	MW-41	30 May 2023 13:45		07 Jun 2023 13:30	09 Jun 2023 17:05	1
HS23060166-09	MW-47	30 May 2023 14:30		07 Jun 2023 13:30	09 Jun 2023 17:07	1
HS23060166-10	LMW-9R	31 May 2023 08:00		07 Jun 2023 13:30	09 Jun 2023 17:09	1
HS23060166-11	LMW-22	31 May 2023 09:00		07 Jun 2023 13:30	09 Jun 2023 17:11	1
HS23060166-12	DUP-01	30 May 2023 11:45		07 Jun 2023 13:30	09 Jun 2023 17:13	1
Batch ID: 194877 (0)		Test Name : DISSOLVED METALS BY SW6020A				
HS23060166-01	MW-45	30 May 2023 09:30		07 Jun 2023 13:00	09 Jun 2023 15:09	1
HS23060166-02	PMW-19R	30 May 2023 10:05		07 Jun 2023 13:00	09 Jun 2023 15:20	1
HS23060166-03	LMW-8	30 May 2023 10:40		07 Jun 2023 13:00	09 Jun 2023 15:21	1
HS23060166-04	LMW-17	30 May 2023 11:10		07 Jun 2023 13:00	09 Jun 2023 15:23	1
HS23060166-05	LMW-5	30 May 2023 11:45		07 Jun 2023 13:00	09 Jun 2023 15:29	1
HS23060166-06	LMW-21	30 May 2023 12:15		07 Jun 2023 13:00	09 Jun 2023 15:31	1
HS23060166-07	PMW-20R	30 May 2023 13:10		07 Jun 2023 13:00	09 Jun 2023 15:33	1
HS23060166-08	MW-41	30 May 2023 13:45		07 Jun 2023 13:00	09 Jun 2023 15:35	1
HS23060166-09	MW-47	30 May 2023 14:30		07 Jun 2023 13:00	09 Jun 2023 15:37	1
HS23060166-10	LMW-9R	31 May 2023 08:00		07 Jun 2023 13:00	09 Jun 2023 15:39	1
HS23060166-11	LMW-22	31 May 2023 09:00		07 Jun 2023 13:00	09 Jun 2023 15:41	1
HS23060166-12	DUP-01	30 May 2023 11:45		07 Jun 2023 13:00	09 Jun 2023 15:43	1

WorkOrder: HS23060166

**METHOD DETECTION /
REPORTING LIMITS**

InstrumentID: ICPMS06

Test Code: ICP_DISS

Test Number: SW6020A (dissolved)

Matrix: Aqueous

Units: mg/L

Test Name: Dissolved Metals by SW6020A

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00125	0.00132	0.000400	0.00200
A	Cadmium	7440-43-9	0.000500	0.000466	0.000200	0.00200
A	Lead	7439-92-1	0.00125	0.00131	0.000600	0.00200
A	Selenium	7782-49-2	0.00250	0.00282	0.00110	0.00200

WorkOrder: HS23060166
InstrumentID: ICPMS06
Test Code: ICP_TW
Test Number: SW6020A
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00125	0.00132	0.000400	0.00200
A	Cadmium	7440-43-9	0.000500	0.000466	0.000200	0.00200
A	Lead	7439-92-1	0.00125	0.00131	0.000600	0.00200
A	Selenium	7782-49-2	0.00250	0.00282	0.00110	0.00200

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

QC BATCH REPORT

Batch ID: 194872 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MLBK	Sample ID:	MLBK-194872	Units:	mg/L	Analysis Date: 09-Jun-2023 15:57			
Client ID:		Run ID:	ICPMS06_437531	SeqNo:	7356073	PrepDate:	07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Arsenic	U	0.00200
Cadmium	U	0.00200
Lead	U	0.00200
Selenium	U	0.00200

LCS	Sample ID:	LCS-194872	Units:	mg/L	Analysis Date: 09-Jun-2023 15:59			
Client ID:		Run ID:	ICPMS06_437531	SeqNo:	7356074	PrepDate:	07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Arsenic	0.04714	0.00200	0.05	0	94.3	80 - 120
Cadmium	0.0483	0.00200	0.05	0	96.6	80 - 120
Lead	0.04607	0.00200	0.05	0	92.1	80 - 120
Selenium	0.04858	0.00200	0.05	0	97.2	80 - 120

MS	Sample ID:	HS23060166-01MS	Units:	mg/L	Analysis Date: 09-Jun-2023 16:25			
Client ID:	MW-45	Run ID:	ICPMS06_437531	SeqNo:	7356087	PrepDate:	07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Arsenic	0.05098	0.00200	0.05	0.000432	101	80 - 120
Cadmium	0.05095	0.00200	0.05	0.000003	102	80 - 120
Lead	0.04969	0.00200	0.05	0.000253	98.9	80 - 120
Selenium	0.05282	0.00200	0.05	0.00114	103	80 - 120

MS	Sample ID:	HS23060122-02MS	Units:	mg/L	Analysis Date: 09-Jun-2023 16:05			
Client ID:		Run ID:	ICPMS06_437531	SeqNo:	7356077	PrepDate:	07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual

Arsenic	0.05084	0.00200	0.05	0.000803	100	80 - 120
Cadmium	0.04974	0.00200	0.05	0.000008	99.5	80 - 120
Lead	0.04852	0.00200	0.05	0.000162	96.7	80 - 120
Selenium	0.04868	0.00200	0.05	-0.000255	97.9	80 - 120

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

QC BATCH REPORT

Batch ID: 194872 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MSD		Sample ID: HS23060166-01MSD		Units: mg/L		Analysis Date: 09-Jun-2023 16:27			
Client ID: MW-45		Run ID: ICPMS06_437531		SeqNo: 7356088		PrepDate: 07-Jun-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.05222	0.00200	0.05	0.000432	104	80 - 120	0.05098	2.42	20
Cadmium	0.05155	0.00200	0.05	0.000003	103	80 - 120	0.05095	1.16	20
Lead	0.04964	0.00200	0.05	0.000253	98.8	80 - 120	0.04969	0.0886	20
Selenium	0.05409	0.00200	0.05	0.00114	106	80 - 120	0.05282	2.37	20

MSD		Sample ID: HS23060122-02MSD		Units: mg/L		Analysis Date: 09-Jun-2023 16:07			
Client ID:		Run ID: ICPMS06_437531		SeqNo: 7356078		PrepDate: 07-Jun-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.05091	0.00200	0.05	0.000803	100	80 - 120	0.05084	0.132	20
Cadmium	0.04855	0.00200	0.05	0.000008	97.1	80 - 120	0.04974	2.42	20
Lead	0.04858	0.00200	0.05	0.000162	96.8	80 - 120	0.04852	0.117	20
Selenium	0.04912	0.00200	0.05	-0.000255	98.8	80 - 120	0.04868	0.908	20

PDS		Sample ID: HS23060166-01PDS		Units: mg/L		Analysis Date: 09-Jun-2023 16:29			
Client ID: MW-45		Run ID: ICPMS06_437531		SeqNo: 7356089		PrepDate: 07-Jun-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.101	0.00200	0.1	0.000432	101	75 - 125			
Cadmium	0.1004	0.00200	0.1	0.000003	100	75 - 125			
Lead	0.09738	0.00200	0.1	0.000253	97.1	75 - 125			
Selenium	0.1023	0.00200	0.1	0.00114	101	75 - 125			

PDS		Sample ID: HS23060122-02PDS		Units: mg/L		Analysis Date: 09-Jun-2023 16:09			
Client ID:		Run ID: ICPMS06_437531		SeqNo: 7356079		PrepDate: 07-Jun-2023		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.1069	0.00200	0.1	0.000803	106	75 - 125			
Cadmium	0.1033	0.00200	0.1	0.000008	103	75 - 125			
Lead	0.1016	0.00200	0.1	0.000162	101	75 - 125			
Selenium	0.1033	0.00200	0.1	-0.000255	104	75 - 125			

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

QC BATCH REPORT

Batch ID: 194872 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD	Sample ID:	HS23060166-01SD		Units:	mg/L	Analysis Date: 09-Jun-2023 16:23			
Client ID:	MW-45	Run ID:	ICPMS06_437531	SeqNo:	7356086	PrepDate:	07-Jun-2023	DF:	5
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	U	0.0100					0.000432	0	10
Cadmium	U	0.0100					0.000003	0	10
Lead	U	0.0100					0.000253	0	10
Selenium	U	0.0100					0.00114	0	10

SD	Sample ID:	HS23060122-02SD		Units:	mg/L	Analysis Date: 09-Jun-2023 16:03			
Client ID:		Run ID:	ICPMS06_437531	SeqNo:	7356076	PrepDate:	07-Jun-2023	DF:	5
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	U	0.0100					0.000803	0	10
Cadmium	U	0.0100					0.000008	0	10
Lead	U	0.0100					0.000162	0	10
Selenium	U	0.0100					-0.000255	0	10

The following samples were analyzed in this batch:

HS23060166-01	HS23060166-02	HS23060166-03	HS23060166-04
HS23060166-05	HS23060166-06	HS23060166-07	HS23060166-08
HS23060166-09	HS23060166-10	HS23060166-11	HS23060166-12

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

QC BATCH REPORT

Batch ID: 194877 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)	
MLBK	Sample ID: MBLK-194877	Units: mg/L		Analysis Date: 09-Jun-2023 15:05	
Client ID:		Run ID: ICPMS06_437531	SeqNo: 7355949	PrepDate: 07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD
Arsenic	U	0.00200			RPD Limit Qual
Cadmium	U	0.00200			
Lead	U	0.00200			
Selenium	U	0.00200			
LCS	Sample ID: LCS-194877	Units: mg/L		Analysis Date: 09-Jun-2023 15:07	
Client ID:		Run ID: ICPMS06_437531	SeqNo: 7355950	PrepDate: 07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD
Arsenic	0.04992	0.00200	0.05	0 99.8	80 - 120
Cadmium	0.0523	0.00200	0.05	0 105	80 - 120
Lead	0.04947	0.00200	0.05	0 98.9	80 - 120
Selenium	0.05109	0.00200	0.05	0 102	80 - 120
MS	Sample ID: HS23060166-01MS	Units: mg/L		Analysis Date: 09-Jun-2023 15:14	
Client ID: MW-45		Run ID: ICPMS06_437531	SeqNo: 7355953	PrepDate: 07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD
Arsenic	0.05086	0.00200	0.05	0.000318 101	75 - 125
Cadmium	0.05018	0.00200	0.05	0.000017 100	75 - 125
Lead	0.04983	0.00200	0.05	0.000156 99.4	75 - 125
Selenium	0.05149	0.00200	0.05	0.00168 99.6	75 - 125
MSD	Sample ID: HS23060166-01MSD	Units: mg/L		Analysis Date: 09-Jun-2023 15:16	
Client ID: MW-45		Run ID: ICPMS06_437531	SeqNo: 7355954	PrepDate: 07-Jun-2023	DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD
Arsenic	0.05144	0.00200	0.05	0.000318 102	75 - 125 0.05086 1.13 20
Cadmium	0.05123	0.00200	0.05	0.000017 102	75 - 125 0.05018 2.08 20
Lead	0.05002	0.00200	0.05	0.000156 99.7	75 - 125 0.04983 0.369 20
Selenium	0.05152	0.00200	0.05	0.00168 99.7	75 - 125 0.05149 0.0544 20

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

QC BATCH REPORT

Batch ID: 194877 (0)		Instrument: ICPMS06		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)			
PDS	Sample ID: HS23060166-01PDS	Units: mg/L		Analysis Date: 09-Jun-2023 15:18			
Client ID:	MW-45	Run ID:	ICPMS06_437531	SeqNo: 7355955	PrepDate: 07-Jun-2023	DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD
Arsenic	0.1018	0.00200	0.1	0.000318	101	75 - 125	
Cadmium	0.1023	0.00200	0.1	0.000017	102	75 - 125	
Lead	0.09893	0.00200	0.1	0.000156	98.8	75 - 125	
Selenium	0.1013	0.00200	0.1	0.00168	99.7	75 - 125	

SD	Sample ID: HS23060166-01SD	Units: mg/L		Analysis Date: 09-Jun-2023 15:12			
Client ID:	MW-45	Run ID:	ICPMS06_437531	SeqNo: 7355952	PrepDate: 07-Jun-2023	DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %D
Arsenic	U	0.0100				0.000318	0 10
Cadmium	U	0.0100				0.000017	0 10
Lead	U	0.0100				0.000156	0 10
Selenium	U	0.0100				0.00168	0 10

The following samples were analyzed in this batch:	HS23060166-01	HS23060166-02	HS23060166-03	HS23060166-04
	HS23060166-05	HS23060166-06	HS23060166-07	HS23060166-08
	HS23060166-09	HS23060166-10	HS23060166-11	HS23060166-12

Client: WSP Golder
Project: Frisco CDC GW North CAMU
WorkOrder: HS23060166

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-37	30-Jun-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

Sample Receipt Checklist

Work Order ID: HS23060166

Date/Time Received:

02-Jun-2023 09:15

Client Name: Golder St Louis

Received by:

Corey GranditsCompleted By: /S/ Corey Grandits

eSignature

02-Jun-2023 18:15

Date/Time

Reviewed by: /S/ James Guin

eSignature

05-Jun-2023 18:09

Date/Time

Matrices:

W

Carrier name:

FedEx

Shipping container/cooler in good condition?

Yes No Not Present

Custody seals intact on shipping container/cooler?

Yes No Not Present

Custody seals intact on sample bottles?

Yes No Not Present

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes No Not Present

Chain of custody present?

Yes No

2 Page(s)

Chain of custody signed when relinquished and received?

Yes No

COC IDs:241332 , 241331

Samplers name present on COC?

Yes No

Chain of custody agrees with sample labels?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

Container/Temp Blank temperature in compliance?

Yes No

Temperature(s)/Thermometer(s):

3.2UC/3.1C

IR31

Cooler(s)/Kit(s):

51075

Date/Time sample(s) sent to storage:

6/2/23

Water - VOA vials have zero headspace?

Yes No

No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

--	--	--

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

--

Corrective Action:

--



Cincinnati, OH

+1 513 733 5336

Everett, WA

+1 425 356 2600

Fort Collins, CO

+1 970 490 1511

Holland, MI

+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 241332

Houston, TX

+1 281 530 5656

Middletown, PA

+1 717 944 5541

Spring City, PA

+1 610 948 4903

Salt Lake City, UT

+1 801 266 7700

South Charleston, WV

+1 304 356 3168

York, PA

+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis																
Purchase Order	GL2040906205	Project Name	Frisco CDC North CAMU GW Qty	A	ICP_TW (6020A - Total As, Cd, Pb, Se (QTY)) [120mL HNO3]															
Work Order		Project Number	GL2040906205	B	(6020A - DISSolved As, Cd, Pb, Se (QTY))-FIDFilt [120mL HNO3]															
Company Name	WSP Golder	Bill To Company	WSP Golder	C	MS/MSD [1x120mL P HNO3 (T), 1x120mL P HNO3 (D)]															
Send Report To	Rahel Pommerenke	Invoice Attn	Accounts Payable WSP	D																
Address	701 Emerson Road Suite 250	Address	701 Emerson Road Suite 250	E																
City/State/Zip	Creve Coeur, MO 63141	City/State/Zip	Creve Coeur MO 63141	F																
Phone	(314) 394-6125	Phone	(314) 984-8800	G																
Fax		Fax		H																
e-Mail Address	Rahel_Pommerenke@golder.com	e-Mail Address	USENVAcounts@wsp.com	I																
J																				

HS23060166
WSP Golder
Frisco CDC GW North CAMU

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-45	5-30-23	0930	Groundwa	2,8	4	X	X	X								
2	PMW-19R	5-30-23	1005	Groundwa	2,8	2	X	X									
3	LMW-8	5-30-23	1040	Groundwa	2,8	2	X	X									
4	LMW-17	5-30-23	1110	Groundwa	2,8	2	X	X									
5	LMW-5	5-30-23	1145	Groundwa	2,8	2	X	X									
6	LMW-21	5-30-23	1215	Groundwa	2,8	2	X	X									
7	PMW-20R	5-30-23	1310	Groundwa	2,8	2	X	X									
8	MW-41	5-30-23	1345	Groundwa	2,8	2	X	X									
9	MW-47	5-30-23	1430	Groundwa	2,8	2	X	X									
10	LMW-9R	5-31-23	0800	Groundwa	2,8	2	X	X									

Sampler(s) Please Print & Sign JOHN BRAYTON John Shipment Method FED EX Required Turnaround Time: (Check Box) Other 5 Wk Days 2 Wk Days 24 Hour Results Due Date:

Relinquished by: <u>John</u>	Date: <u>5-30-23</u>	Time: <u>1730</u>	Received by: <u>John</u>	Notes: Frisco CDC North CAMU GW		
Relinquished by: <u>John</u>	Date: <u>5-30-23</u>	Time: <u>1730</u>	Received by Laboratory: <u>John</u>	Cooler ID: <u>51075</u>	Cooler Temp: <u>3.20</u>	QC Package: (Check One Box Below)
Logged by (Laboratory): <u>John</u>	Date: <u>5-30-23</u>	Time: <u>1730</u>	Checked by (Laboratory): <u>John</u>	<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist	
				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV	
				<input type="checkbox"/> Level IV SW846/CLP		
				<input type="checkbox"/> Other		

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 2

COC ID: 241331

Houston, TX

+1 281 530 5656

Middletown, PA

+1 717 944 5541

Spring City, PA

+1 610 948 4903

Salt Lake City, UT

+1 801 266 7700

South Charleston, WV

+1 304 356 3168

York, PA

+1 717 505 5280

Customer Information		Project Information			Parameter/Method Request for Analysis																
Purchase Order	GL2040906205	Project Name	Frisco CDC North CAMU GW Qty			A	ICP_TW (6020A - Total As, Cd, Pb, Se (QTY)) [120ml] HNO3														
Work Order		Project Number	GL2040906205			B	(6020A - DISSolved As, Cd, Pb, Se (QTY))-FldFltr [120ml]														
Company Name	WSP Golder	Bill To Company	WSP Golder			C	MS/MSD [1x120ml P HNO3 (T), 1x120ml P HNO3 (D)]														
Send Report To	Rahel Pommerenke	Invoice Attn	Accounts Payable WSP			D															
Address	701 Emerson Road Suite 250	Address	701 Emerson Road Suite 250			E															
City/State/Zip	Creve Coeur, MO 63141	City/State/Zip	Creve Coeur MO 63141			G															
Phone	(314) 394-6125	Phone	(314) 984-8800			H															
Fax		Fax				I															
e-Mail Address	Rahel_Pommerenke@golder.com	e-Mail Address	USENVAccountspayable@wsp.com			J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold				
1	LMW-22	5-31-23	0900	Groundwa	2,8	2	X	X													
2	DUP-01			Groundwa	2,8	2	X	X													
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
Sampler(s) Please Print & Sign <i>JOHN BEAULDON</i> <i>John</i>				Shipment Method	Required Turnaround Time: (Check Box)			<input type="checkbox"/> Other	Results Due Date:												
				FEDEX	<input type="checkbox"/> STD 10 Wk Days	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 Hour													
Relinquished by: <i>John</i>				Date: 6-1-23	Time: 1730	Received by:			Notes: Frisco CDC North CAMU GW												
Relinquished by:				Date:	Time:	Received by (Laboratory): <i>CA 6-23 0919</i>			Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)										
Logged by (Laboratory):				Date:	Time:	Checked by (Laboratory):															
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035												<input type="checkbox"/>	<input checked="" type="checkbox"/> TRRP Checklist								
												<input type="checkbox"/> TRRP Level IV									
												<input type="checkbox"/>									

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS  10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL Date: <u>6-1-23</u> Time: <u>1730</u> Name: <u>John</u> Company: <u>SGRA</u>	Seal Broken By: <u>SM</u> Date: <u>06/02/23</u>
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51075 JUN 02 2023



51075

POLY #1554-004 M/W/12/10/14
88

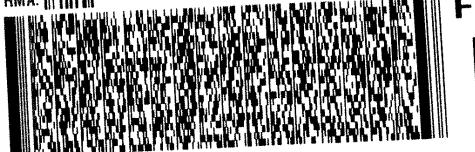
ORIGIN ID:SGRA (512) 695-8609
JOHN BRAYTON
GOLDER ASSOCIATES
1823 CALLENDER HILL RD
MANSFIELD, TX 760636091
UNITED STATES US

SHIP DATE: 13MAY23
ACTWGT: 12.50 LB MAN
CAD: 02212477/CAFE3704

To **SHIPPING DEPT**
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

(281) 680-5666
REF: GOLDER ASSOCIATES FRISCO B092966 D.W

RMA: |||||

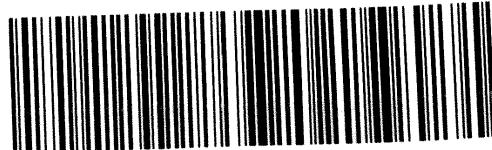


FedEx
TRK# 6230 2999 6924
0221

FRI - 02 JUN 10:30A
PRIORITY OVERNIGHT

77099
TX-US IAH
2023-06-02 11:10:00 AM

AB SGRA



APPENDIX D

Data Usability Summaries



DATA USABILITY SUMMARY

ALS WORK ORDERS: HS23031023 & HS23060166

PROJECT NO: 2040906205.000

CLIENT: Frisco Community Development Corporation

SAMPLE DATES: March 15 and 16, 2023
May 30 and 31, 2023

LABORATORY: ALS Group

WORK ORDERS: HS23031023 and HS23060166

INTENDED USE: First Semiannual 2023 Groundwater Monitoring Report

SITE: Frisco Community Development Corporation Site, 7471 Old 5th Street,
Frisco, TX

TESTS/METHODS

- SW-846 6020A - Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)
- SW-7470A – Mercury

SAMPLES

Eleven groundwater samples, one matrix spike and matrix spike duplicate sample, and one field duplicate sample were collected in March 2023 for the analyses of total and dissolved metals: antimony, arsenic, barium, cadmium, chromium, copper, lead, selenium, silver, zinc, and mercury. Eleven groundwater samples, one matrix spike and matrix spike duplicate sample, and one field duplicate sample were collected in May 2023 for the analyses of total and dissolved metals: arsenic, cadmium, lead, and selenium. See Table 1 for the sample list.

WSP completed a review of the chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, Review and Reporting of COC Concentration Data (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS). WSP completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness

- Chain-of-Custody Procedures
- Sample Condition
- Field Procedures
- Results Reporting Procedures
- Field and Laboratory Blanks
- Laboratory Control Sample (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries
- Field Duplicate Precision
- Detectability Check Sample (DCS)

Additionally, WSP used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs) and Sample Detection Limits (SDLs)
- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for this data usability review are as follows:

- Precision: \pm MQL difference or 30% relative percent difference (RPD) for laboratory duplicates and $\pm 2x$ MQL difference (if either result is less than 5x MQL) or 30% RPD for field duplicates as recommended in TRRP-13
- Accuracy: 70-130% spike recovery (and not less than 30% or data is rejected) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier and bias code to the results for the affected samples in accordance with TRRP-13.

LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP Certification T104704231) for the matrices, methods and parameters of analysis requested on the chain-of-custody forms.

USABILITY SUMMARY

Data are usable for the intended purpose. No data were qualified due to exceedances of quality control criteria (Table 2).

Preparer: Brenda Basile 07/10/2023

Senior Reviewer: Josh Hale 07/11/2023

QUALITY CONTROL PARAMETERS AND OUTCOMES

Data Completeness

The laboratory data package contains necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contains sample results in acceptable format.

Chain-of-Custody

Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. The information on the custody records is complete and agrees with that in the field notes and laboratory reports.

Sample Condition

Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical method. No data were qualified.

Field Procedures

The samples were collected and placed immediately into laboratory supplied containers and then into a cooler with ice for overnight delivery to the laboratory.

According to the Work Plan, groundwater samples with turbidity greater than 10 nephelometric turbidity units (NTU) would be field filtered with a 10-micron filter for analyses of total metals. None of the groundwater samples collected had a turbidity greater than 10 NTU during this sampling event. For dissolved metals, samples were field filtered with a 0.45-micron filter. According to the Groundwater Sample Collection Forms, samples were filtered appropriately.

Results Reporting Procedures

Water results are reported in milligrams per liter (mg/L). Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

The dissolved metals concentrations were slightly above the total metal concentration in some samples as shown on Table 3. Total and dissolved concentrations were evaluated using a criterion of 30 RPD or less than two times the MQL as shown in Table 3. No data were qualified.

Laboratory Blanks

Method blank and continuing calibration blank data provided by the laboratory were evaluated. Sample data associated with method blank data are qualified if the sample concentration is within five times the blank concentration. Sample data associated with continuing calibration blank data are qualified if the analyte is detected above the MDL and the sample concentration is detected. If data is qualified as estimated based on accuracy or precision criteria that was not met, the data is qualified with both a J-flag and a U-flag. No data are qualified as shown on Table 4.

Laboratory Control Sample

The LCS recoveries (%R) are within the TRRP-13 recommended criteria of 80 -120 percent recovery (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

WSP submitted one MS/MSD for this sampling event (MW-45). In addition, one sample in the March 2023 sample event, PMW-20R, was analyzed as a mercury MS/SMD. The MS/MSD recoveries were within the TRRP-13 recommended criteria of 70-130%R. Precision was within the TRRP-13 recommended criteria of 30 RPD. The post-digestion spike recovery was within the TRRP-13 recommended criteria of 70-130%R. The serial dilution percent difference was within the method criteria of 10% difference.

Field Duplicate Precision

One field duplicate was collected with these samples (LMW-5/DUP-01). Field duplicate results are presented in Table 5. Samples and COCs with duplicate precision were within the TRRP-13 recommended criteria of 30 RPD or less than two times the MQL as shown in Table 5.

Detectability Check Standards (DCS)

DCS data were provided in the laboratory report. DCS results support the SDLs in the laboratory report.

Instrument Tuning and Performance

According to the LRC, instrument tuning and interference check sample results met method requirements and therefore no data qualification was warranted.

Instrument Calibration

According to the LRC, calibrations were acceptable.

Internal Standards

According to the LRC, internal standard areas were acceptable.

Table 1
Cross-reference of Field Sample Identification and Laboratory Identifications
Frisco CDC GW North CAMU

Lab Sample Identification	Field Sample Identification	Sample Date	Total/Dissolved Metals	Comments
HS23031023-01	MW-45	3/15/2023	✓	Matrix Spike/Matrix Spike Duplicate
HS23031023-02	PMW-19R	3/15/2023	✓	
HS23031023-03	LMW-8	3/15/2023	✓	
HS23031023-04	LMW-17	3/15/2023	✓	
HS23031023-05	LMW-5	3/15/2023	✓	
HS23031023-06	LMW-21	3/15/2023	✓	
HS23031023-07	PMW-20R	3/15/2023	✓	Mercury MS/MSD
HS23031023-08	MW-41	3/15/2023	✓	
HS23031023-09	MW-47	3/15/2023	✓	
HS23031023-10	LMW-9R	3/15/2023	✓	
HS23031023-11	LMW-22	3/16/2023	✓	
HS23031023-12	DUP-01	3/15/2023	✓	Field duplicate of LMW-5
HS23060166-01	MW-45	5/30/2023	✓	Matrix Spike/Matrix Spike Duplicate
HS23060166-02	PMW-19R	5/30/2023	✓	
HS23060166-03	LMW-8	5/30/2023	✓	
HS23060166-04	LMW-17	5/30/2023	✓	
HS23060166-05	LMW-5	5/30/2023	✓	
HS23060166-06	LMW-21	5/30/2023	✓	
HS23060166-07	PMW-20R	5/30/2023	✓	
HS23060166-08	MW-41	5/30/2023	✓	
HS23060166-09	MW-47	5/30/2023	✓	
HS23060166-10	LMW-9R	5/31/2023	✓	
HS23060166-11	LMW-22	5/31/2023	✓	
HS23060166-12	DUP-01	5/30/2023	✓	Field duplicate of LMW-5

Table 2
Qualified Data
Frisco CDC GW North CAMU

Field Sample ID	Lab Sample ID	Analyte	Result	Units	Qualifier	Explanation
No data are qualified						

Notes:

J - Estimated data; data are qualified due to exceedance of one or more quality control criteria. The reported sample concentration is the approximate concentration of the analyte in the sample.

U - Analyte not detected at associated concentration (column labeled as "Result").

mg/L - milligrams per liter

Table 3
Total Versus Dissolved Comparison
Frisco CDC GW North CAMU

Sample	Analyte	Total Concentration (mg/L)	Dissolved Concentration (mg/L)	Precision (RPD)	MQL	Qualification
MW-45 (March 2023)	Copper	0.00136	0.00168	21	0.00200	None; less than 30% RPD
MW-45 (March 2023)	Selenium	< 0.00110	0.00137	22	0.00200	None; less than 30% RPD
MW-45 (March 2023)	Zinc	< 0.00200	0.00213	6.3	0.00400	None; less than 30% RPD
PMW-19R (March 2023)	Barium	0.0529	0.0572	7.8	0.00400	None; less than 30% RPD
LMW-17 (March 2023)	Arsenic	0.000865	0.00087	0.69	0.00200	None; less than 30% RPD
LMW-21 (March 2023)	Arsenic	0.000621	0.000648	4.3	0.00200	None; less than 30% RPD
LMW-21 (March 2023)	Barium	0.0295	0.0328	11	0.00400	None; less than 30% RPD
LMW-21 (March 2023)	Selenium	0.00563	0.00715	24	0.00200	None; less than 30% RPD
PMW-20R (March 2023)	Selenium	0.00233	0.00238	2.1	0.00200	None; less than 30% RPD
MW-41 (March 2023)	Barium	0.0686	0.0711	3.6	0.00400	None; less than 30% RPD
LMW-9R (March 2023)	Zinc	0.00213	0.00227	6.4	0.00400	None; less than 30% RPD
LMW-22 (March 2023)	Copper	0.00110	0.00160	37	0.00200	None; difference less than 2 times the MQL
DUP-01 (March 2023)	Arsenic	0.000484	0.00050	3.3	0.00200	None; less than 30% RPD
DUP-01 (March 2023)	Barium	0.0482	0.0496	2.9	0.00400	None; less than 30% RPD
DUP-01 (March 2023)	Zinc	< 0.00200	0.00205	2	0.00400	None; difference less than 2 times the MQL
DUP-01 (March 2023)	Mercury	< 0.0000300	0.000099	107	0.000200	None; difference less than 2 times the MQL
MW-45 (May 2023)	Selenium	0.00114	0.00168	38	0.00200	None; difference less than 2 times the MQL
PMW-19R (May 2023)	Arsenic	0.000583	0.000586	0.51	0.00200	None; less than 30% RPD
LMW-17 (May 2023)	Arsenic	0.000537	0.000566	5.3	0.00200	None; less than 30% RPD
LMW-5 (May 2023)	Arsenic	0.000486	0.000491	1.0	0.00400	None; less than 30% RPD
PMW-20R (May 2023)	Selenium	0.00139	0.00140	0.72	0.00200	None; less than 30% RPD
MW-41 (May 2023)	Arsenic	0.00218	0.00356	48	0.00200	None; difference less than 2 times the MQL
LMW-9R (May 2023)	Selenium	0.00199	0.00202	1.5	0.00200	None; less than 30% RPD
LMW-22 (May 2023)	Arsenic	0.00219	0.00264	19	0.00200	None; less than 30% RPD
DUP-01 (May 2023)	Arsenic	0.000433	0.000455	5.0	0.00200	None; less than 30% RPD

Notes:

No qualification necessary if the difference between dissolved and total did not exceed the analytical method error (i.e., + 2x MQL difference (if either result is less than 5x MQL) or 30% RPD).

mg/L - milligrams per liter

RPD - relative percent difference

MQL - Method quantitation limit

TABLE 4 - BLANK DETECTIONS

Lab Sample ID	Analyte	Result	Qualified Concentration	Units	Explanation
MBLK-191223	Chromium (Total)	0.000454	0.00227	mg/L	None qualified; either not detected or concentration greater than 5x the blank
ICPMS06_430778 CCB-15	Chromium (Total)	0.000464	0.00232	mg/L	None qualified; either not detected or concentration greater than 5x the blank

Notes:

U - Not detected; the analyte was detected <5x the concentration in an associated blank.

mg/L - milligrams per liter

Table 5
Field Duplicate Precision Calculations
Frisco CDC GW North CAMU

Duplicate and Parent Sample Field Identification	Analyte	Sample Result	Duplicate Result	RPD ^a	Qualifier	Qualifier Added
LMW-5/DUP-01 (March 2023)	Arsenic, total	0.000670 J	0.000484 J	32	A	None; absolute difference <2X MQL
	Arsenic, dissolved	0.000510 J	0.000500 J	2.0	A	None
	Barium, total	0.0571	0.0482	17	A	None
	Barium, dissolved	0.0509	0.0496	2.6	A	None
	Copper, total	0.00155 J	0.00121 J	25	A	None
	Copper, dissolved	0.00112 J	0.00117	4.4	A	None
	Lead, total	0.00135 J	0.000986 J	31	A	None; absolute difference <2X MQL
	Zinc, dissolved	0.00200 U	0.002050 J	2.5	A	None
	Mercury, dissolved	0.000030 U	0.000099 J	107	A	None; absolute difference <2X MQL
LMW-5/DUP-01 (May 2023)	Arsenic, total	0.000486 J	0.000433 J	12	A	None
	Arsenic, dissolved	0.000491 J	0.000455 J	7.6	A	None

Notes:

^a Relative Percent Difference (RPD) = $((SR - DR)*200)/(SR + DR)$, where SR is the sample result and DR is the duplicate result.

A - Acceptable Data

The RPD test (<30%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test (< 2x MQL) applies.

NA - Not applicable

MQL - Method quantitation limit

SDL - Sample detection limit

mg/L - milligrams per liter

J - estimated value; detected between the MQL and SDL.

U - not detected; analyte was detected below SDL.

