

Texas Commission on Environmental Quality

# Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION			
SITE LOCATION			REMEDATION DIVISION PROGRAM AND FACILITY IDENTIFICATION
Site Name:			Is This Site Being Managed Under A State Lead Contract? Yes <span style="margin-left: 100px;">No</span>
Address 1:			Program Area:
Address 2:			Mail Code: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 20px; vertical-align: middle;"></span>
City:	State:	<b>Texas</b>	Is This A New Site To This Program Area? Yes <span style="margin-left: 100px;">No</span>
Zip Code:	<span style="border: 1px solid black; display: inline-block; width: 80px; height: 20px; vertical-align: middle;"></span>	County:	Additional Information:
TCEQ Region:			Additional Information:

DOCUMENT(S) IDENTIFICATION	
PHASE OF REMEDIATION	DOCUMENT NAME
1.	
2.	
3.	
4.	
5.	

CONTACT INFORMATION			
I attest that all work has been done in accordance with TCEQ rules		I certify that I am aware misrepresentation of any claim is a violation.	
RESPONSIBLE PARTY/APPLICANT/CUSTOMER INFORMATION (IF APPLICABLE)			
ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT			
SIGNATURES			
			

DATABASE CODES			
Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.		4.	
2.		5.	
3.			



May 4, 2023

Project No. GL2040906205

**Mack Borchardt**

City of Frisco  
6101 Frisco Square Boulevard  
Frisco, Texas 75034

**RE: 2023 FIRST QUARTER FRENCH DRAIN OPERATIONAL REPORT, FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE, 7471 OLD FIFTH STREET, FRISCO, TEXAS**

Dear Mr. Borchardt,

WSP USA Inc. (WSP) has prepared this quarterly operational report for the French Drain System (FDS) at the City of Frisco Community Development Corporation (Frisco CDC) facility located at 7471 Old Fifth Street in Frisco, Texas (Site). This report has been prepared in response to the Texas Commission on Environmental Quality (TCEQ) comments to Exide Technologies, Inc. (Exide) on the 2013 Affected Property Assessment Report (APAR) dated October 8th, 2013, which requested additional information regarding the performance of the French Drain and the TCEQ comments to Exide for the 2014 APAR dated May 5, 2015, which requested quarterly reports on the operation of the FDS. This work is being continued under new ownership by the City of Frisco CDC.

This report includes general FDS background information and summarizes operation of the FDS system during the first quarter 2023. Specifically, the quarterly report includes a discussion of the performance of the system, gallons of water intercepted, concentrations of constituents in the water, the presence and/or absence of leakage along the flood wall into Stewart Creek, the presence or absence of white crystalline substance and sample results (if applicable), and a determination as to whether ongoing discharges to Stewart Creek are continuing to occur. As stated in previous quarterly reports, survey data for the French Drain and Stewart Creek and specific notes on which days the French Drain was pumped, as requested by the TCEQ, are included in this report.

## **1.0 FRENCH DRAIN SYSTEM HISTORY**

According to historical information contained in the French Drain Construction Report (W&M Environmental Group, Inc. [W&M], 2013), the concrete retaining wall along the southern edge of the operating area was constructed in the late 1980s to keep Stewart Creek floodwaters from entering the operating portion of the facility and to retain storm water from the operating portion of the facility for subsequent collection and treatment at the onsite water treatment plants. After construction of the retaining wall, areas of seepage along the Stewart Creek side of the retaining wall were previously observed by Exide and its consultants; primarily between the Battery Receiving Building and the Slag Treatment Building. In response, Exide sealed numerous cracks in the retaining wall. In 2011, W&M designed the FDS and associated repairs to drain any water that collected below the pavement on the north side of the FDS and eliminate seepage through the flood wall. Water from the FDS is pumped to mobile storage tanks adjacent to the wastewater treatment area for offsite disposal. Additional FDS

information, including system specifications, is included in the June 2014 French Drain Monitoring Plan (FDMP) that was previously provided to the TCEQ.

## **2.0 DESCRIPTION OF MONITORING AND INSPECTION ACTIVITIES**

Activities completed during the first quarter of 2023 included the following:

- Daily (weekday) Inspections and Maintenance – Inspection of the flowmeter and recording flow rate and totalizer reading.
- Weekly Inspections and Maintenance – Inspection and maintenance of the FDS collection sump.
- Quarterly Inspections and Maintenance –
  - Inspection of the FDS for sedimentation.
  - Inspection of the Flood Wall waterstop and joint fillers.
  - Inspection of the Flood Wall for signs of seepage through the wall, cracks, or other signs of damage.

Monitoring and inspection activities completed for the FDS in accordance with the FDMP during the first quarter 2023 were completed by both City of Frisco Site personnel as well as WSP staff. City of Frisco Site personnel conducted daily and weekly activities, and WSP personnel conducted the quarterly inspection. A more detailed description of the results of data collection activities and inspections is included in Section 3.0 below.

## **3.0 OBSERVATIONS AND RESULTS**

### **3.1 Gallons of Water Intercepted**

The flow rate and totalizer readings for the FDS were generally recorded each weekday. Table 1 summarizes the recorded flows of the FDS, and the offsite daily precipitation based on data recorded at a Frisco weather station (data obtained from <https://www.wunderground.com/dashboard/pws/KTXDALLA25>). The flow totalizer meter was exchanged with a new meter on February 10, 2023.

### **3.2 Groundwater and Perched Water Level Observations**

Water levels for MW-26, MW-29, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-46 were measured and recorded during the first quarter 2023. Table 2 summarizes the groundwater depths and elevations from this sampling event as well as previous data and includes the elevations of the banks and bottom of Stewart Creek at transects located near the upstream, midpoint and downstream end of the FDS. Monitoring well locations, transect locations and Stewart Creek elevations are shown on Figure 1. Water levels were higher when compared to the fourth quarter 2022 ranging from 1.4 ft to 2.0 ft higher than from the previous quarter. Compared to the length of record, the 3<sup>rd</sup> and 4<sup>th</sup> quarter groundwater elevations appear to be a temporarily low water table elevation.

### **3.3 Floodwall Seepage**

According to City of Frisco Site personnel, existing patches where sealant was peeling at the edges or where the indentation of the existing hairline crack beneath the sealant was visible on the wall and an expansion joint were sealed with sealant on January 6, 2023. Additional sealant was applied to the outlet of the flood wall 36" pipe on

January 18, 2023. A floodwall inspection was conducted on March 16, 2023. Floodwall seepage was not observed at the time of inspection.

### **3.4 White Crystalline Material Observations**

White crystalline material (that has been previously reported) was not observed on the flood wall during the WSP inspection conducted on March 16, 2023. As such, no samples of white crystalline material were collected or analyzed.

### **3.5 Laboratory Analytical Results**

FDS water samples were collected by City of Frisco Site personnel January 17, 2023. Analytical results are summarized in Table 3 and the laboratory report is provided in Attachment A. The first quarter 2023 sample results for metals and general chemistry were generally similar to the fourth quarter 2022 sample results except for zinc which was non-detected in the fourth quarter 2022 results and detected in the first quarter 2023 results.

## **4.0 SUMMARY OF SYSTEM PERFORMANCE**

Based on the results of the inspection and monitoring activities for the first quarter 2023 described above, the FDS appears to be operating as designed.

## 5.0 CLOSURE

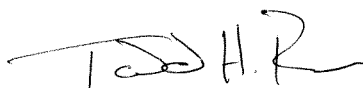
WSP appreciates the opportunity to assist the City of Frisco Community Development Corporation with this project. Please contact us if you have any questions or comments concerning this quarterly operational report.

Sincerely,

**WSP USA Inc.**



Rahel Pommerenke  
*Environmental Engineer*



Todd Rees, PhD, P.E. (NJ, GA)  
*Senior Director*

RSP/THR

CC: Jerry Wick, Texas Commission on Environmental Quality  
Brad Weaver – JEM Connections LLC (City of Frisco)

Attachments: Table 1: French Drain Daily Flow Volumes  
Table 2: Perched and Groundwater Monitoring Well Water Elevations  
Table 3: French Drain Water Analytical Data  
Figure 1: Stewart Creek Transects  
Attachment A: French Drain Water Laboratory Analytical Results

**Table 1**  
**French Drain Daily Flow Volumes**

Jan-23			Feb-23			Mar-23		
Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)
5,045		1.00	23,093		3.15	5,903		2.37
Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)
Sunday, January 1, 2023	NR	0.00	Wednesday, February 1, 2023	0	0.01	Wednesday, March 1, 2023	174	0.00
Monday, January 2, 2023	NR	0.00	Thursday, February 2, 2023	0	0.00	Thursday, March 2, 2023	167	0.73
Tuesday, January 3, 2023	569	0.00	Friday, February 3, 2023	2,443	0.08	Friday, March 3, 2023	356	0.26
Wednesday, January 4, 2023	121	0.00	Saturday, February 4, 2023	4,473	0.00	Saturday, March 4, 2023	235	0.00
Thursday, January 5, 2023	106	0.00	Sunday, February 5, 2023	549	0.00	Sunday, March 5, 2023	340	0.00
Friday, January 6, 2023	83	0.00	Monday, February 6, 2023	415	0.00	Monday, March 6, 2023	232	0.00
Saturday, January 7, 2023	63	0.00	Tuesday, February 7, 2023	267	0.96	Tuesday, March 7, 2023	273	0.00
Sunday, January 8, 2023	100	0.00	Wednesday, February 8, 2023	3,202	0.95	Wednesday, March 8, 2023	178	0.20
Monday, January 9, 2023	46	0.00	Thursday, February 9, 2023	2,545	0.00	Thursday, March 9, 2023	230	0.35
Tuesday, January 10, 2023	0	0.00	Friday, February 10, 2023	0*	0.00	Friday, March 10, 2023	245	0.00
Wednesday, January 11, 2023	66	0.00	Saturday, February 11, 2023	1,106	0.00	Saturday, March 11, 2023	285	0.00
Thursday, January 12, 2023	66	0.00	Sunday, February 12, 2023	0	0.00	Sunday, March 12, 2023	249	0.00
Friday, January 13, 2023	61	0.00	Monday, February 13, 2023	1,644	0.00	Monday, March 13, 2023	197	0.00
Saturday, January 14, 2023	0	0.00	Tuesday, February 14, 2023	701	0.63	Tuesday, March 14, 2023	170	0.00
Sunday, January 15, 2023	63	0.00	Wednesday, February 15, 2023	913	0.00	Wednesday, March 15, 2023	172	0.00
Monday, January 16, 2023	0	0.00	Thursday, February 16, 2023	636	0.00	Thursday, March 16, 2023	123	0.04
Tuesday, January 17, 2023	55	0.00	Friday, February 17, 2023	727	0.00	Friday, March 17, 2023	171	0.00
Wednesday, January 18, 2023	55	0.00	Saturday, February 18, 2023	443	0.00	Saturday, March 18, 2023	114	0.00
Thursday, January 19, 2023	64	0.00	Sunday, February 19, 2023	631	0.00	Sunday, March 19, 2023	121	0.00
Friday, January 20, 2023	0	0.00	Monday, February 20, 2023	536	0.00	Monday, March 20, 2023	22	0.00
Saturday, January 21, 2023	0	0.01	Tuesday, February 21, 2023	345	0.00	Tuesday, March 21, 2023	110	0.01
Sunday, January 22, 2023	66	0.00	Wednesday, February 22, 2023	181	0.36	Wednesday, March 22, 2023	171	0.01
Monday, January 23, 2023	83	0.00	Thursday, February 23, 2023	336	0.00	Thursday, March 23, 2023	171	0.00
Tuesday, January 24, 2023	181	0.99	Friday, February 24, 2023	216	0.00	Friday, March 24, 2023	170	0.75
Wednesday, January 25, 2023	1,644	0.00	Saturday, February 25, 2023	126	0.01	Saturday, March 25, 2023	167	0.00
Thursday, January 26, 2023	728	0.00	Sunday, February 26, 2023	282	0.13	Sunday, March 26, 2023	231	0.00
Friday, January 27, 2023	315	0.00	Monday, February 27, 2023	196	0.02	Monday, March 27, 2023	239	0.00
Saturday, January 28, 2023	250	0.00	Tuesday, February 28, 2023	180	0.00	Tuesday, March 28, 2023	164	0.00
Sunday, January 29, 2023	131	0.00				Wednesday, March 29, 2023	194	0.01
Monday, January 30, 2023	129	0.00				Thursday, March 30, 2023	124	0.00
Tuesday, January 31, 2023	0	0.00				Friday, March 31, 2023	108	0.01

## Notes:

Daily flow volumes provided by the Site.

NR - Not Recorded.

\*Flow meter changed on February 10, 2023.

Prepared by: RSP 4/4/2023

Checked by: CML 4/7/2023

Reviewed by: THR 4/21/2023



**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Stewart Creek Elevations					
Survey Point			Measurement Date	Elevation (ft msl)	
Transect 1					
Top of North Bank			3/7/2016	628.74	
Toe of North Bank			3/7/2016	624.79	
Creek Centerline			3/7/2016	622.79	
Toe of South Bank			3/7/2016	624.27	
Top of South Bank			3/7/2016	634.09	
Transect 2					
Top of North Bank			3/7/2016	627.97	
Toe of North Bank			3/7/2016	623.57	
Toe of South Bank			3/7/2016	624.04	
Top of South Bank			3/7/2016	630.52	
Transect 3					
Top of North Bank			3/7/2016	628.20	
Toe of North Bank			3/7/2016	622.70	
Toe of South Bank			3/7/2016	622.88	
Top of South Bank			3/7/2016	628.18	
Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-26 (Groundwater)	631.93	5-15	3/11/2013	9.98	621.95
			4/5/2013	9.52	622.41
			4/29/2013	9.21	622.72
			1/21/2014	5.80	626.13
			7/29/2014	5.79	626.14
			9/23/2014	8.9	623.03
			6/12/2015	5.32	626.61
			9/8/2015	5.72	626.21
			12/17/2015	5.32	626.61
			2/29/2016	5.41	626.52
			6/1/2016	5.47	626.46
			9/8/2016	5.51	626.42
			12/2/2016	5.65	626.28
			3/2/2017	5.81	626.12
			5/4/2017	6.21	625.72
			8/28/2017	5.56	626.37
			11/27/2017	5.71	626.22
			2/15/2018	5.75	626.18
			5/9/2018	5.65	626.28
			9/24/2018	NA	NA
			12/4/2018	5.60	626.33
			3/7/2019	5.64	626.29
			6/3/2019	5.92	626.01
			9/9/2019	5.87	626.06
			12/2/2019	5.63	626.30
			2/26/2020	5.71	626.22
			5/27/2020	4.67	627.26
			8/27/2020	6.12	625.81
			12/8/2020	5.41	626.52
			3/4/2021	5.62	626.31
			6/2/2021	5.56	626.37
			8/30/2021	5.56	626.37
			12/9/2021	5.46	626.47
			3/3/2022	5.62	626.31
			6/1/2022	5.59	626.34
			9/20/2022	8.16	623.77
			11/29/2022	8.02	623.91
			3/16/2023	6.29	625.64

**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-29 (Groundwater)	633.51	4.5-14.5	3/11/2013	13.08	620.43
			4/5/2013	6.96	626.55
			4/29/2013	6.56	626.95
			1/21/2014	6.62	626.89
			7/29/2014	6.57	626.94
			9/23/2014	6.04	627.47
			6/12/2015	5.21	628.30
			9/8/2015	6.35	627.16
			12/17/2015	5.67	627.84
			2/29/2016	5.79	627.72
			6/1/2016	5.69	627.82
			9/8/2016	5.67	627.84
			12/2/2016	6.25	627.26
			3/2/2017	6.51	627.00
			5/4/2017	5.80	627.71
			8/28/2017	5.90	627.61
			11/27/2017	6.77	626.74
			2/15/2018	6.77	626.74
			5/9/2018	5.95	627.56
			9/24/2018	NA	NA
			12/4/2018	6.12	627.39
			3/7/2019	6.07	627.44
			6/3/2019	6.27	627.24
			9/9/2019	6.25	627.26
			12/2/2019	6.27	627.24
			2/26/2020	5.18	628.33
			5/27/2020	5.09	628.42
			8/27/2020	6.96	626.55
			12/8/2020	6.06	627.45
			3/4/2021	6.12	627.39
			6/2/2021	6.09	627.42
			8/30/2021	6.12	627.39
			12/9/2021	6.12	627.39
			3/3/2022	6.27	627.24
			6/1/2022	5.06	628.45
			9/20/2022	9.06	624.45
			11/29/2022	8.91	624.60
			3/16/2023	7.13	626.38



**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-31 (Groundwater)	636.71	8-23	5/13/2013	10.58	626.13
			1/21/2014	10.87	625.84
			7/29/2014	10.81	625.90
			9/23/2014	11.32	625.39
			6/12/2015	9.61	627.10
			9/8/2015	10.53	626.18
			12/17/2015	9.42	627.29
			2/29/2016	9.78	626.93
			6/1/2016	9.82	626.89
			9/8/2016	9.90	626.81
			12/2/2016	10.21	626.50
			3/2/2017	12.23	624.48
			5/4/2017	10.58	626.13
			8/28/2017	9.99	626.72
			11/27/2017	10.82	625.89
			2/15/2018	10.90	625.81
			5/9/2018	10.19	626.52
			9/24/2018	NA	NA
			12/4/2018	10.42	626.29
			3/7/2019	10.13	626.58
			6/3/2019	10.31	626.40
			9/9/2019	10.51	626.20
			12/2/2019	9.85	626.86
			2/26/2020	8.96	627.75
			5/27/2020	8.54	628.17
			8/27/2020	10.56	626.15
			12/8/2020	9.71	627.00
			3/4/2021	9.79	626.92
			6/2/2021	9.86	626.85
			8/30/2021	9.56	627.15
			12/9/2021	9.67	627.04
			3/3/2022	9.86	626.85
			6/1/2022	8.76	627.95
			9/30/2022	13.22	623.49
			11/29/2022	13.06	623.65
			3/16/2023	11.06	625.65

**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-32 (Perched)	630.96	2.5-5	1/21/2014	4.16	626.80
			7/29/2014	4.59	626.37
			9/23/2014	4.59	626.37
			6/12/2015	3.79	627.17
			9/8/2015	R	R
			2/29/2016	3.57	627.39
			6/1/2016	3.62	627.34
			9/8/2016	3.83	627.13
			12/2/2016	3.40	627.56
			3/2/2017	3.26	627.70
			5/4/2017	3.49	627.47
			8/28/2017	3.55	627.41
			11/27/2017	3.54	627.42
			2/15/2018	3.21	627.75
			5/9/2018	3.30	627.66
			9/24/2018	NA	NA
			12/4/2018	2.70	628.26
			3/7/2019	3.88	627.08
			6/3/2019	3.67	627.29
			9/9/2019	3.92	627.04
			12/2/2019	3.32	627.64
			2/26/2020	2.92	628.04
			5/27/2020	2.39	628.57
			8/27/2020	3.86	627.10
			12/8/2020	3.16	627.80
			3/4/2021	3.29	627.67
			6/2/2021	3.19	627.77
			8/30/2021	3.19	627.77
			12/9/2021	3.24	627.72
			3/3/2022	3.31	627.65
			6/1/2022	2.77	628.19
			9/20/2022	4.69	626.27
			11/29/2022	4.52	626.44
			3/16/2023	2.43	628.53
MW-33 (Perched)	632.59	2.5-5	1/21/2014	1.09	631.50
			7/29/2014	2.14	630.45
			9/23/2014	1.55	631.04
			12/17/2015	1.21	631.38
			2/29/2016	1.07	631.52
			6/1/2016	1.09	631.50
			9/8/2016	1.07	631.52
			12/2/2016	0.95	631.64
			3/2/2017	0.88	631.71
			5/4/2017	0.91	631.68
			8/28/2017	0.86	631.73
			11/27/2017	0.85	631.74
			2/15/2018	0.81	631.78
			5/9/2018	0.80	631.79
			9/24/2018	NA	NA
			12/4/2018	0.95	631.64
			3/7/2019	0.64	631.95
			6/3/2019	0.92	631.67
			9/9/2019	1.13	631.46
			12/2/2019	0.33	632.26
			2/26/2020	0.39	632.20
			5/27/2020	0.16	632.43
			8/27/2020	0.99	631.60
			12/8/2020	0.46	632.13
			3/4/2021	0.72	631.87
			6/2/2021	0.61	631.98
			8/30/2021	0.26	632.33
			12/9/2021	0.71	631.88
			3/3/2022	0.72	631.87
			6/1/2022	0.56	632.03
			9/20/2022	2.77	629.82
			11/29/2022	2.79	629.80
			3/16/2023	0.96	631.63

**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-34 (Perched)	632.83	2.5-5	1/21/2014	4.31	628.52
			7/29/2014	4.45	628.38
			9/23/2014	4.45	628.38
			6/12/2015	3.42	629.41
			12/17/2015	3.03	629.80
			2/29/2016	1.95	630.88
			6/1/2016	2.04	630.79
			9/8/2016	2.59	630.24
			12/2/2016	2.50	630.33
			3/2/2017	2.75	630.08
			5/4/2017	3.93	628.90
			8/28/2017	2.95	629.88
			11/27/2017	3.62	629.21
			2/15/2018	3.71	629.12
			5/9/2018	3.57	629.26
			9/24/2018	NA	NA
			12/4/2018	3.08	629.75
			3/7/2019	3.41	629.42
			6/3/2019	3.17	629.66
			9/9/2019	3.31	629.52
			12/2/2019	2.89	629.94
			2/26/2020	1.37	631.46
			5/27/2020	1.86	630.97
			8/27/2020	3.49	629.34
			12/8/2020	2.58	630.25
			3/4/2021	2.76	630.07
			6/2/2021	2.67	630.16
			8/30/2021	2.73	630.10
			12/9/2021	2.51	630.32
			3/3/2022	2.69	630.14
			6/1/2022	1.26	631.57
			9/20/2022	4.16	628.67
			11/29/2022	4.26	628.57
			3/16/2023	2.11	630.72
MW-35 (Perched)	632.55	2.5-5	1/21/2014	DRY	DRY
			7/29/2014	DRY	DRY
			9/23/2014	DRY	DRY
			6/12/2015	4.97	627.58
			9/8/2015	DRY	DRY
			12/17/2015	4.10	628.45
			2/29/2016	3.86	628.69
			6/1/2016	3.99	628.56
			9/8/2016	4.13	628.42
			12/2/2016	3.85	628.70
			3/2/2017	3.94	628.61
			5/4/2017	4.58	627.97
			8/28/2017	4.16	628.39
			11/27/2017	3.98	628.57
			2/15/2018	3.81	628.74
			5/9/2018	3.92	628.63
			9/24/2018	NA	NA
			12/4/2018	3.74	628.81
			3/7/2019	3.65	628.90
			6/3/2019	3.91	628.64
			9/9/2019	4.05	628.50
			12/2/2019	4.06	628.49
			2/26/2020	3.89	628.66
			5/27/2020	2.95	629.60
			8/27/2020	4.52	628.03
			12/8/2020	4.06	628.49
			3/4/2021	4.22	628.33
			6/2/2021	4.19	628.36
			8/30/2021	3.92	628.63
			12/9/2021	4.12	628.43
			3/3/2022	4.29	628.26
			6/1/2022	3.77	628.78
			9/20/2022	4.34	628.21
			11/29/2022	4.17	628.38
			3/16/2023	2.41	630.14

**Table 2**  
**Perched and Groundwater Monitoring Well Water Elevations**

Well ID	TOC Elevation (ft msl)	Screen Interval (ft bgs)	Measurement Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-46 (Groundwater)	630.98	10-20	1/21/2014	5.21	625.77
			7/29/2014	5.47	625.51
			9/23/2014	5.08	625.90
			6/12/2015	5.50	625.48
			9/8/2015	4.17	626.81
			2/29/2016	5.23	625.75
			6/1/2016	5.30	625.68
			9/8/2016	5.41	625.57
			12/2/2016	4.96	626.02
			3/2/2017	5.00	625.98
			5/4/2017	5.50	625.48
			8/28/2017	4.44	626.54
			11/27/2017	5.41	625.57
			2/15/2018	5.81	625.17
			5/9/2018	4.24	626.74
			9/24/2018	NA	NA
			12/4/2018	4.61	626.37
			3/7/2019	4.29	626.69
			6/3/2019	4.61	626.37
			9/9/2019	4.41	626.57
			12/2/2019	4.32	626.66
			2/26/2020	3.29	627.69
			5/27/2020	3.26	627.72
			8/27/2020	4.89	626.09
			12/8/2020	4.21	626.77
			3/4/2021	4.42	626.56
			6/2/2021	4.39	626.59
			8/30/2021	4.17	626.81
			12/9/2021	4.16	626.82
			3/3/2022	4.38	626.60
			6/1/2022	3.06	627.92
			9/20/2022	6.12	624.86
			11/29/2022	5.96	625.02
			3/16/2023	4.39	626.59

## Notes:

1. bgs - below ground surface.
2. msl - [above] mean sea level.
3. btoc - below top of casing.
4. R - depth to groundwater was disqualified as a field error because depth was greater than total depth of the well.
5. NA - not accessible due to Site conditions.

Prepared by: RSP 4/4/2023

Checked by: CML 4/7/2023

Reviewed by: THR 4/20/2023

**Table 3**  
**French Drain Water**  
**Analytical Data**

	Sample ID FD011723-001		Sample ID FD011723-002	
	Laboratory ID 23010268-001		Laboratory ID 23010268-002	
	Date Collected 1/17/2023 9:20		Date Collected 1/17/2023 9:20	
Metals				
Parameter:	Result	Units	Result	Units
Arsenic	NA	mg/L	<0.003	mg/L
Barium	NA	mg/L	<b>0.053</b>	mg/L
Cadmium	NA	mg/L	<0.0005	mg/L
Chromium	NA	mg/L	<b>0.013</b>	mg/L
Copper	NA	mg/L	<b>0.0161</b>	mg/L
Iron	NA	mg/L	<0.25	mg/L
Lead	NA	mg/L	<b>0.014</b>	mg/L
Manganese	NA	mg/L	<b>0.002</b>	mg/L
Nickel	NA	mg/L	<0.003	mg/L
Selenium	NA	mg/L	<b>0.0099</b>	mg/L
Silver	NA	mg/L	<0.001	mg/L
Zinc	NA	mg/L	<b>0.026</b>	mg/L
Mercury	NA	mg/L	<0.0001	mg/L
General Chemistry				
Parameter:	Result	Units	Result	Units
Total Suspended Solids	<b>7.3</b>	mg/L	NA	mg/L
Total Dissolved Solids	<b>1,160</b>	mg/L	NA	mg/L

## Notes:

- 1) NA - Not Analyzed
- 2) mg/L - milligrams per liter
- 3) **Bold** values indicate a detection.
- 4) < - denotes analyte not detected, value shown is the sample detection limit (SDL)

Prepared by: RSP 4/4/2023

Checked by: CML 4/7/2023

Reviewed by: THR 4/20/2023







**LEGEND**

- Monitoring Well Location
- Transect Location
- French Drain
- Flood Wall
- Approximate Creek Centerline

**NOTE(S)**

1. ELEVATIONS SHOWN ARE MEASURED IN FEET ABOVE MEAN SEA LEVEL.

**REFERENCE(S)**

1. ELEVATIONS COLLECTED BY BRITTAIN & CRAWFORD, LLC ON MARCH 7, 2016  
2. AERIAL IMAGERY - APRIL, 2017

**CLIENT**

FRISCO COMMUNITY DEVELOPMENT CORPORATION


**PROJECT**

FRENCH DRAIN QUARTERLY REPORT  
FRISCO, TEXAS

**TITLE**

STEWART CREEK TRANSECTS

**CONSULTANT**



YYYY-MM-DD	2020-12-02
DESIGNED	JWT
PREPARED	JWT
REVIEWED	RSP
APPROVED	THR

PROJECT NO.	CONTROL	REV.	FIGURE
GL2040906201	1302086Y003	0	1





Monday, February 6, 2023

Frisco Community Development Corp/City of Fri

Eduardo Salazar

6101 Frisco Square Blvd

Frisco, Texas 75034

Tel: (972) 335-2121 Fax:

Re: Project Name: F.C.D.C / Former Exide Technologies

Project Number: Influent water flows

Project Location: 7471 Fifth Street Frisco, Texas 75034

SPL Inc received 6 liquid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
23010268-001	FD011723-001	Liquid	1/17/2023 09:20	Total Dissolved Solids, Total Suspended Solids
23010268-002	FD011723-002	Liquid	1/17/2023 09:20	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
23010268-003	SO011723-001	Liquid	1/17/2023 08:50	Total Dissolved Solids, Total Suspended Solids
23010268-004	SO011723-002	Liquid	1/17/2023 08:50	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
23010268-005	L011723-001	Liquid	1/17/2023 08:40	Total Dissolved Solids, Total Suspended Solids
23010268-006	L011723-002	Liquid	1/17/2023 08:40	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc

*To the best of my knowledge, all problems/ anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified via associated flags and/ or in the case narrative. The analyses and data met requirements of NELAP except where noted. All non-NELAP methods are identified accordingly and all estimated uncertainties of test results are within method or EPA specifications.*

Respectfully submitted,

Chad Cooper

Laboratory Manager



Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## Analytical Report

Project Name: **F.C.D.C / Former Exide Technologies**

Customer Sample ID: **FD011723-001**

SPL Sample ID: 23010268-001

Matrix: **Liquid**

Sample Received: 1/17/2023

Sample Collected: **1/17/2023 09:20**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
<b>General Chemistry</b>								
Total Dissolved Solids	50.0	50	<b>1160</b>	mg/L	01/18/23 16:20	SM 2540-C	K.V.	
Total Suspended Solids	1.0	5	<b>7.3</b>	mg/L	01/18/23 09:55	SM 2540-D	K.V.	





Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## Analytical Report

Project Name: **F.C.D.C / Former Exide Technologies**

Customer Sample ID: **FD011723-002**

SPL Sample ID: 23010268-002

Sample Received: 1/17/2023

Matrix: **Liquid**

Sample Collected: **1/17/2023 09:20**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
<b>Metals</b>								
<i>Digested by method 200.8 on 01/18/23 at 10:55</i>								
Arsenic	0.003	0.005	ND	mg/L	01/19/23 17:06	200.8	K.E.L.	
Barium	0.003	0.005	<b>0.053</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
Cadmium	0.0005	0.001	ND	mg/L	01/19/23 17:06	200.8	K.E.L.	
Chromium	0.003	0.005	<b>0.013</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
Copper	0.0025	0.005	<b>0.0161</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
Iron	0.25	0.5	ND	mg/L	01/19/23 17:06	200.8	K.E.L.	
Lead	0.003	0.005	<b>0.014</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
Manganese	0.001	0.002	<b>0.002</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	*
Nickel	0.003	0.005	ND	mg/L	01/19/23 17:06	200.8	K.E.L.	
Selenium	0.0025	0.005	<b>0.0099</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
Silver	0.001	0.001	ND	mg/L	01/19/23 17:06	200.8	K.E.L.	
Zinc	0.003	0.005	<b>0.026</b>	mg/L	01/19/23 17:06	200.8	K.E.L.	
<i>Digested by method 245.1 on 01/18/23 at 12:41</i>								
Mercury	0.0001	0.0002	ND	mg/L	01/19/23 15:23	245.1	K.E.L.	



Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## Sample Cross Reference

Project Name: **F.C.D.C / Former Exide Technologies**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
FD011723-001	23010268-001	Total Dissolved Solids	SM 2540-C	TDS__10329_L
		Total Suspended Solids	SM 2540-D	TSS__05650_L
FD011723-002	23010268-002	Mercury	245.1	MERC_09751_L
		Arsenic	200.8	META_16783_L
		Selenium	200.8	META_16783_L
		Silver	200.8	META_16783_L
		Zinc	200.8	META_16783_L
		Manganese	200.8	META_16783_L
		Lead	200.8	META_16783_L
		Iron	200.8	META_16783_L
		Copper	200.8	META_16783_L
		Chromium	200.8	META_16783_L
		Nickel	200.8	META_16783_L
		Barium	200.8	META_16783_L
		Cadmium	200.8	META_16783_L
SO011723-001	23010268-003	Total Dissolved Solids	SM 2540-C	TDS__10329_L
		Total Suspended Solids	SM 2540-D	TSS__05650_L
SO011723-002	23010268-004	Mercury	245.1	MERC_09751_L
		Copper	200.8	META_16783_L
		Silver	200.8	META_16783_L
		Selenium	200.8	META_16783_L
		Nickel	200.8	META_16783_L
		Manganese	200.8	META_16783_L
		Iron	200.8	META_16783_L
		Chromium	200.8	META_16783_L
		Zinc	200.8	META_16783_L
		Cadmium	200.8	META_16783_L
		Barium	200.8	META_16783_L
		Arsenic	200.8	META_16783_L
		Lead	200.8	META_16783_L
L011723-001	23010268-005	Total Dissolved Solids	SM 2540-C	TDS__10329_L
		Total Suspended Solids	SM 2540-D	TSS__05650_L
L011723-002	23010268-006	Mercury	245.1	MERC_09751_L
		Lead	200.8	META_17183_L
		Arsenic	200.8	META_17183_L
		Barium	200.8	META_17183_L
		Cadmium	200.8	META_17183_L
		Chromium	200.8	META_17183_L
		Iron	200.8	META_17183_L
		Manganese	200.8	META_17183_L
		Nickel	200.8	META_17183_L
		Selenium	200.8	META_17183_L
		Silver	200.8	META_17183_L
		Zinc	200.8	META_17183_L
		Copper	200.8	META_17183_L



Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## QC Summary

Project Name: **F.C.D.C / Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
<b>QCBatchID TDS_10329_L</b>									
Blank	Total Dissolved Solids	ND mg/L							
LCS	Total Dissolved Solids	980 mg/L		1000 mg/L	98%	90-110%			
LCSD	Total Dissolved Solids	980 mg/L		1000 mg/L	98%	90-110%	0.0%	0-5%	
Replicate	Total Dissolved Solids	2050 mg/L	2070 mg/L				1.0%	0-5%	
<b>QCBatchID TSS_05650_L</b>									
Blank	Total Suspended Solids	ND mg/L							
LCS	Total Suspended Solids	492 mg/L		500 mg/L	98%	85-115%			
LCSD	Total Suspended Solids	496 mg/L		500 mg/L	99%	85-115%	0.8%	0-15%	
Replicate	Total Suspended Solids	5500 mg/L	5680 mg/L				3.2%	0-15%	
<b>QCBatchID MERC_09751_L</b>									
Blank	Mercury	ND mg/L							
LCS	Mercury	0.0104 mg/L		0.01 mg/L	104%	85-115%			
LCSD	Mercury	0.0097 mg/L		0.01 mg/L	97%	85-115%	6.8%	0-25%	
MS	Mercury	0.0109 mg/L	ND	0.01 mg/L	109%	80-120%			
MSD	Mercury	0.0102 mg/L	ND	0.01 mg/L	102%	80-120%	6.6%	0-25%	
<b>QCBatchID META_16783_L</b>									
Blank	Arsenic	ND mg/L							
	Barium	ND mg/L							
	Cadmium	ND mg/L							
	Chromium	ND mg/L							
	Copper	ND mg/L							
	Iron	ND mg/L							
	Lead	ND mg/L							
	Manganese	ND mg/L							
	Nickel	ND mg/L							
	Selenium	ND mg/L							
	Silver	ND mg/L							
	Zinc	ND mg/L							
LCS	Arsenic	0.097 mg/L		0.1 mg/L	97%	85-115%			
	Barium	0.099 mg/L		0.1 mg/L	99%	85-115%			
	Cadmium	0.0968 mg/L		0.1 mg/L	97%	85-115%			
	Chromium	0.097 mg/L		0.1 mg/L	97%	85-115%			
	Copper	0.0921 mg/L		0.1 mg/L	92%	85-115%			
	Iron	9.86 mg/L		10.1 mg/L	98%	85-115%			
	Lead	0.098 mg/L		0.1 mg/L	98%	85-115%			
	Manganese	0.099 mg/L		0.1 mg/L	99%	85-115%			
	Nickel	0.095 mg/L		0.1 mg/L	95%	85-115%			
	Selenium	0.0962 mg/L		0.1 mg/L	96%	85-115%			
	Silver	0.092 mg/L		0.1 mg/L	92%	85-115%			
	Zinc	0.092 mg/L		0.1 mg/L	92%	85-115%			
LCSD	Arsenic	0.099 mg/L		0.1 mg/L	99%	85-115%	1.8%	0-20%	



Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## QC Summary

Project Name: **F.C.D.C / Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
<b>QCBatchID META_16783_L</b>									
	Barium	0.100 mg/L		0.1 mg/L	100%	85-115%	1.3%	0-20%	
	Cadmium	0.0992 mg/L		0.1 mg/L	99%	85-115%	2.4%	0-20%	
	Chromium	0.099 mg/L		0.1 mg/L	99%	85-115%	2.0%	0-20%	
	Copper	0.0939 mg/L		0.1 mg/L	94%	85-115%	1.9%	0-20%	
	Iron	9.93 mg/L		10.1 mg/L	98%	85-115%	0.7%	0-20%	
	Lead	0.099 mg/L		0.1 mg/L	99%	85-115%	1.1%	0-20%	
	Manganese	0.101 mg/L		0.1 mg/L	101%	85-115%	1.9%	0-20%	
	Nickel	0.097 mg/L		0.1 mg/L	97%	85-115%	1.9%	0-20%	
	Selenium	0.0967 mg/L		0.1 mg/L	97%	85-115%	0.5%	0-20%	
	Silver	0.093 mg/L		0.1 mg/L	93%	85-115%	1.4%	0-20%	
	Zinc	0.094 mg/L		0.1 mg/L	94%	85-115%	2.2%	0-20%	
MS	Arsenic	0.452 mg/L	ND	0.5 mg/L	90%	80-120%			
	Barium	0.548 mg/L	0.045 mg/L	0.5 mg/L	101%	80-120%			
	Cadmium	0.4563 mg/L	ND	0.5 mg/L	91%	80-120%			
	Chromium	0.448 mg/L	ND	0.5 mg/L	90%	80-120%			
	Copper	1.14 mg/L	0.7384 mg/L	0.5 mg/L	80%	80-120%			
	Iron	48.1 mg/L	0.035 mg/L	50.5 mg/L	95%	80-120%			
	Lead	0.462 mg/L	ND	0.5 mg/L	92%	80-120%			
	Manganese	0.465 mg/L	0.151 mg/L	0.5 mg/L	63%	80-120%			Q-7
	Nickel	0.450 mg/L	0.005 mg/L	0.5 mg/L	89%	80-120%			
	Selenium	0.4249 mg/L	ND	0.5 mg/L	85%	80-120%			
	Silver	0.466 mg/L	0.013 mg/L	0.5 mg/L	91%	80-120%			
	Zinc	0.449 mg/L	0.022 mg/L	0.5 mg/L	85%	80-120%			
MSD	Arsenic	0.491 mg/L	ND	0.5 mg/L	98%	80-120%	8.3%	0-20%	
	Barium	0.534 mg/L	0.045 mg/L	0.5 mg/L	98%	80-120%	2.6%	0-20%	
	Cadmium	0.5028 mg/L	ND	0.5 mg/L	101%	80-120%	9.7%	0-20%	
	Chromium	0.486 mg/L	ND	0.5 mg/L	97%	80-120%	8.1%	0-20%	
	Copper	1.16 mg/L	0.7384 mg/L	0.5 mg/L	84%	80-120%	1.5%	0-20%	
	Iron	47.5 mg/L	0.035 mg/L	50.5 mg/L	94%	80-120%	1.3%	0-20%	
	Lead	0.499 mg/L	ND	0.5 mg/L	100%	80-120%	7.8%	0-20%	
	Manganese	0.501 mg/L	0.151 mg/L	0.5 mg/L	70%	80-120%	7.4%	0-20%	Q-7
	Nickel	0.483 mg/L	0.005 mg/L	0.5 mg/L	96%	80-120%	7.1%	0-20%	
	Selenium	0.4875 mg/L	ND	0.5 mg/L	98%	80-120%	13.7%	0-20%	
	Silver	0.458 mg/L	0.013 mg/L	0.5 mg/L	89%	80-120%	1.7%	0-20%	
	Zinc	0.477 mg/L	0.022 mg/L	0.5 mg/L	91%	80-120%	6.1%	0-20%	
<b>QCBatchID META_17183_L</b>									
Blank	Arsenic	ND mg/L							
	Barium	ND mg/L							
	Cadmium	ND mg/L							
	Chromium	ND mg/L							
	Copper	ND mg/L							
	Iron	ND mg/L							
	Lead	ND mg/L							



Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## QC Summary

Project Name: **F.C.D.C / Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
<b>QCBatchID META_17183_L</b>									
	Manganese	ND mg/L							
	Nickel	ND mg/L							
	Selenium	ND mg/L							
	Silver	ND mg/L							
	Zinc	ND mg/L							
LCS	Arsenic	0.521 mg/L		0.5 mg/L	104%	85-115%			
	Barium	0.521 mg/L		0.5 mg/L	104%	85-115%			
	Cadmium	0.5215 mg/L		0.5 mg/L	104%	85-115%			
	Chromium	0.525 mg/L		0.5 mg/L	105%	85-115%			
	Copper	0.4880 mg/L		0.5 mg/L	98%	85-115%			
	Iron	56.2 mg/L		50.5 mg/L	111%	85-115%			
	Lead	0.528 mg/L		0.5 mg/L	106%	85-115%			
	Manganese	0.516 mg/L		0.5 mg/L	103%	85-115%			
	Nickel	0.512 mg/L		0.5 mg/L	102%	85-115%			
	Selenium	0.5043 mg/L		0.5 mg/L	101%	85-115%			
	Silver	0.499 mg/L		0.5 mg/L	100%	85-115%			
	Zinc	0.502 mg/L		0.5 mg/L	101%	85-115%			
LCSD	Arsenic	0.502 mg/L		0.5 mg/L	100%	85-115%	3.8%	0-20%	
	Barium	0.492 mg/L		0.5 mg/L	99%	85-115%	5.6%	0-20%	
	Cadmium	0.5211 mg/L		0.5 mg/L	104%	85-115%	0.1%	0-20%	
	Chromium	0.511 mg/L		0.5 mg/L	102%	85-115%	2.6%	0-20%	
	Copper	0.4709 mg/L		0.5 mg/L	94%	85-115%	3.6%	0-20%	
	Iron	54.2 mg/L		50.5 mg/L	107%	85-115%	3.7%	0-20%	
	Lead	0.512 mg/L		0.5 mg/L	103%	85-115%	3.0%	0-20%	
	Manganese	0.522 mg/L		0.5 mg/L	104%	85-115%	1.1%	0-20%	
	Nickel	0.499 mg/L		0.5 mg/L	100%	85-115%	2.7%	0-20%	
	Selenium	0.4932 mg/L		0.5 mg/L	99%	85-115%	2.2%	0-20%	
	Silver	0.491 mg/L		0.5 mg/L	98%	85-115%	1.6%	0-20%	
	Zinc	0.484 mg/L		0.5 mg/L	97%	85-115%	3.7%	0-20%	
MS	Arsenic	0.534 mg/L	ND	0.5 mg/L	107%	80-120%			
	Barium	0.560 mg/L	0.025 mg/L	0.5 mg/L	107%	80-120%			
	Cadmium	0.5392 mg/L	ND	0.5 mg/L	108%	80-120%			
	Chromium	0.541 mg/L	ND	0.5 mg/L	108%	80-120%			
	Copper	0.6215 mg/L	0.1305 mg/L	0.5 mg/L	98%	80-120%			
	Iron	55.9 mg/L	0.113 mg/L	50.5 mg/L	111%	80-120%			
	Lead	0.550 mg/L	ND	0.5 mg/L	110%	80-120%			
	Manganese	0.526 mg/L	0.005 mg/L	0.5 mg/L	104%	80-120%			
	Nickel	0.534 mg/L	ND	0.5 mg/L	107%	80-120%			
	Selenium	0.5153 mg/L	ND	0.5 mg/L	103%	80-120%			
	Silver	0.521 mg/L	ND	0.5 mg/L	104%	80-120%			
	Zinc	0.534 mg/L	0.024 mg/L	0.5 mg/L	102%	80-120%			
MSD	Arsenic	0.522 mg/L	ND	0.5 mg/L	104%	80-120%	2.3%	0-20%	
	Barium	0.543 mg/L	0.025 mg/L	0.5 mg/L	104%	80-120%	3.1%	0-20%	
	Cadmium	0.5206 mg/L	ND	0.5 mg/L	104%	80-120%	3.5%	0-20%	



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## QC Summary

Project Name: **F.C.D.C / Former Exide Technologies**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID	META_17183_L								
	Chromium	0.524 mg/L	ND	0.5 mg/L	105%	80-120%	3.2%	0-20%	
	Copper	0.6003 mg/L	0.1305 mg/L	0.5 mg/L	94%	80-120%	3.5%	0-20%	
	Iron	55.3 mg/L	0.113 mg/L	50.5 mg/L	109%	80-120%	0.3%	0-20%	
	Lead	0.521 mg/L	ND	0.5 mg/L	104%	80-120%	5.3%	0-20%	
	Manganese	0.512 mg/L	0.005 mg/L	0.5 mg/L	101%	80-120%	2.8%	0-20%	
	Nickel	0.515 mg/L	ND	0.5 mg/L	103%	80-120%	3.6%	0-20%	
	Selenium	0.5128 mg/L	ND	0.5 mg/L	103%	80-120%	0.5%	0-20%	
	Silver	0.499 mg/L	ND	0.5 mg/L	100%	80-120%	4.3%	0-20%	
	Zinc	0.510 mg/L	0.024 mg/L	0.5 mg/L	97%	80-120%	4.6%	0-20%	



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## Case Narrative

Project Name: **F.C.D.C / Former Exide Technologies**

*	Refer to QC section and / or Case Narrative
J-5	The associated concentration is an estimated value detected between the SDL and the Adjusted MQL
Q-7	Recovery and/or RPD outside desirable limits.
Dx [Value]	Sample diluted by [Value] amount
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SDL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory

Solid samples submitted to the laboratory for analysis by SW-846 Method 8260 should be collected by SW-846 Method 5035. Those samples in which concentrations are less than or equal to 200 ug/kg should be collected in accordance with SW-846 Method 5035, Section 6.2.1. For samples with higher concentrations (> 200 ug/kg), collect samples by SW-846 Method 5035, Section 6.2.2 or 6.2.3. Sample results may not accurately reflect volatile concentrations if collection is not performed according to the referenced methodologies.

Solid samples submitted to the laboratory for analysis by TNRCC Method 1005 should be collected in accordance to the methodology. Those samples in which concentrations of C6 to C12 are known to be absent, or fall under the Petroleum Storage Tank (PST) rule, may be collected in bulk sample jars in accordance with TNRCC Method 1005, Revision 3 clarifications. For samples with concentrations of C6 to C12, or where knowledge of the site does not exist, collect samples by TNRCC Method 1005, Section 6.1. Sample results may not accurately reflect TPH concentrations if collection is not performed according to the referenced methodologies.

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5.

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Southern Petroleum Laboratories, Inc. certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.



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Eduardo Salazar

## Sample Preservation Verification

Project Name: **F.C.D.C / Former Exide Technologies**

Receipt temp: **0.6 °C on Ice**

Receipt method: **Customer Courier**

Custody seal intact: **Yes**

All samples / labels received intact: **Yes**

Customer Sample ID: **FD011723-001**

SPL Sample ID: **23010268-001**

Collected: **01/17/23 09:20**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-

Customer Sample ID: **FD011723-002**

SPL Sample ID: **23010268-002**

Collected: **01/17/23 09:20**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

Customer Sample ID: **SO011723-001**

SPL Sample ID: **23010268-003**

Collected: **01/17/23 08:50**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-

Customer Sample ID: **SO011723-002**

SPL Sample ID: **23010268-004**

Collected: **01/17/23 08:50**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

Customer Sample ID: **L011723-001**

SPL Sample ID: **23010268-005**

Collected: **01/17/23 08:40**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed Preservation</u>	<u>pH</u>
1000 mL Plastic	1	Grab		Temp	-





Frisco Community Development Corp/City of Fri  
Eduardo Salazar

## Sample Preservation Verification

Project Name: **F.C.D.C / Former Exide Technologies**

Customer Sample ID: **L011723-002**

SPL Sample ID: **23010268-006**

Collected: **01/17/23 08:40**

Collected By: **Eduardo Salazar**

Collector Affiliation: **Frisco Community Development C**

Matrix: **Liquid**

Indicated / Observed

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2

## Documentation

PROJECT DESCRIPTION: **F.C.D.C / Former Exide Technologies**

Frisco Community Development Corporation  
6101 Frisco Square Blvd  
Frisco, TX 75034  
Telephone 972-335-2121  
Facsimile 972-377-2707

### CHAIN OF CUSTODY RECORD

INDUSTRY: F.C.D.C / Former Exide Technologies	OUTFALL: Influent water flows	SAMPLER: Eduardo Salazar
ADDRESS: 7471 Fifth Street Frisco, Texas 75034	NATURE OF INDUSTRY: Former Secondary Smelting	REPRESENTING: City of Frisco
INDUSTRY REPRESENTATIVE (S): Eduardo Salazar		SIGNATURE: <i>Eduardo Salazar</i>

SAMPLE No. / IDENTIFICATION	DATE (S)	TIME (S)	SAMPLE TYPE **	ANALYSES REQUESTED	pH	DATE TIME	INITIALS	PRESERVATION/ REMARKS/CONTAINERS / ALL SAMPLES COOL ≤ 6° C	INITIALS
23010268									
FD011723-001	01/17/23	9:20 AM	Grab	TDS-TSS	9.0	01/17/23 9:20AM	ES	None/ liter	ES
FD011723-002	01/17/23	9:20 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	9.0	01/17/23 9:20AM	ES	HN03/250ml/plastic	ES
SO011723-001	01/17/23	8:50 AM	Grab	TDS-TSS	8.8	01/17/23 8:50 AM	ES	None/ liter	ES
SO011723-002	01/17/23	8:50 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	8.8	01/17/23 8:50 AM	ES	HN03/250ml/plastic	ES
L011723-001	01/17/23	8:40 AM	Grab	TDS-TSS	12.2	01/17/23 8:40 AM	ES	None/ liter	ES
L011723-002	01/17/23	8:40 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	12.2	01/17/23 8:40 AM	ES	HN03/250ml/plastic	ES

001  
002  
003  
004  
005  
006

FIELD INFORMATION: Raw Grab Samples Quarterly E-MAIL RESULTS TO Billy.king@met-a.com E-Salazar@friscoenergy.com Lindstrom, Aya <A.Lindstrom@braunintertec.com>

### USE WASTE WATER REPORT FORMAT

RELINQUISHED BY: (Signature) <i>Eduardo Salazar</i>	REPRESENTING City of Frisco	DATE 1-17-23	TIME 12:10 PM	RECEIVED BY: (Signature) <i>Billy King</i>	REPRESENTING JCS6	DATE 1/17/23	TIME 12:10 PM
RELINQUISHED BY: (Signature) <i>Eduardo Salazar</i>	REPRESENTING JCS6	DATE 1/17/23	TIME 2:00 PM	RECEIVED BY: (Signature) <i>Katharine Flynn</i>	REPRESENTING SPL	DATE 3-08-23	TIME 3:00 PM

\*\* TC = TIME COMPOSITE (96 PARTS) FC = FLOW WEIGHTED COMPOSITE (96 PARTS) G = GRAB

0X-320 0.6