



January 20, 2023

Project No. GL2040906205

Mack Borchardt

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas 75034

RE: 2022 FOURTH 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 (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 fourth quarter 2022. 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 fourth quarter of 2022 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 fourth quarter 2022 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>).

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 fourth quarter 2022. 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 generally consistent when compared to the third quarter 2022 (with some readings being slightly higher and some readings being slightly lower) than in the third quarter event.

3.3 Floodwall Seepage

A floodwall inspection was conducted on November 29, 2022. 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 November 29, 2022. 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 October 11, 2022. Analytical results are summarized in Table 3 and the laboratory report is provided in Attachment A. The fourth quarter sample results for metals and general chemistry were generally similar to the third quarter sample results except for zinc and nickel which were detected in the third quarter results and non-detected in the fourth quarter results.

4.0 SUMMARY OF SYSTEM PERFORMANCE

Based on the results of the inspection and monitoring activities for the fourth quarter 2022 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



Gerardo de la Peña Ruiz, P.G.
Senior Lead Consultant

RSP/GRP

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

Oct-22			Nov-22			Dec-22		
Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)
11,227		4.87	18,293		5.22	12,606		2.38
Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)
Saturday, October 1, 2022	58	0.00	Tuesday, November 1, 2022	621	0.00	Thursday, December 1, 2022	498	0.00
Sunday, October 2, 2022	0	0.00	Wednesday, November 2, 2022	622	0.00	Friday, December 2, 2022	440	0.00
Monday, October 3, 2022	0	0.00	Thursday, November 3, 2022	365	0.00	Saturday, December 3, 2022	250	0.00
Tuesday, October 4, 2022	0	0.00	Friday, November 4, 2022	321	1.66	Sunday, December 4, 2022	313	0.00
Wednesday, October 5, 2022	0	0.00	Saturday, November 5, 2022	1,748	0.00	Monday, December 5, 2022	342	0.00
Thursday, October 6, 2022	0	0.00	Sunday, November 6, 2022	954	0.00	Tuesday, December 6, 2022	272	0.02
Friday, October 7, 2022	0	0.00	Monday, November 7, 2022	783	0.11	Wednesday, December 7, 2022	246	0.10
Saturday, October 8, 2022	0	0.00	Tuesday, November 8, 2022	73	0.00	Thursday, December 8, 2022	193	0.21
Sunday, October 9, 2022	0	0.00	Wednesday, November 9, 2022	996	0.00	Friday, December 9, 2022	317	0.17
Monday, October 10, 2022	61	0.00	Thursday, November 10, 2022	205	0.00	Saturday, December 10, 2022	186	0.98
Tuesday, October 11, 2022	0	0.00	Friday, November 11, 2022	508	0.72	Sunday, December 11, 2022	769	0.00
Wednesday, October 12, 2022	0	0.00	Saturday, November 12, 2022	707	0.00	Monday, December 12, 2022	809	0.02
Thursday, October 13, 2022	0	0.00	Sunday, November 13, 2022	739	0.00	Tuesday, December 13, 2022	930	0.88
Friday, October 14, 2022	0	0.00	Monday, November 14, 2022	895	0.31	Wednesday, December 14, 2022	812	0.00
Saturday, October 15, 2022	0	0.00	Tuesday, November 15, 2022	891	0.00	Thursday, December 15, 2022	894	0.00
Sunday, October 16, 2022	63	0.32	Wednesday, November 16, 2022	564	0.01	Friday, December 16, 2022	589	0.00
Monday, October 17, 2022	60	0.00	Thursday, November 17, 2022	442	0.00	Saturday, December 17, 2022	1	0.00
Tuesday, October 18, 2022	0	0.00	Friday, November 18, 2022	376	0.00	Sunday, December 18, 2022	0	0.00
Wednesday, October 19, 2022	58	0.00	Saturday, November 19, 2022	0	0.00	Monday, December 19, 2022	1,634	0.00
Thursday, October 20, 2022	0	0.00	Sunday, November 20, 2022	0	0.01	Tuesday, December 20, 2022	243	0.00
Friday, October 21, 2022	59	0.00	Monday, November 21, 2022	821	0.02	Wednesday, December 21, 2022	554	0.00
Saturday, October 22, 2022	0	0.00	Tuesday, November 22, 2022	253	0.00	Thursday, December 22, 2022	NR	0.00
Sunday, October 23, 2022	0	0.00	Wednesday, November 23, 2022	189	0.44	Friday, December 23, 2022	NR	0.00
Monday, October 24, 2022	552	2.67	Thursday, November 24, 2022	508	0.70	Saturday, December 24, 2022	NR	0.00
Tuesday, October 25, 2022	3,450	0.02	Friday, November 25, 2022	938	0.02	Sunday, December 25, 2022	NR	0.00
Wednesday, October 26, 2022	1,831	0.00	Saturday, November 26, 2022	877	1.22	Monday, December 26, 2022	NR	0.00
Thursday, October 27, 2022	307	0.00	Sunday, November 27, 2022	885	0.00	Tuesday, December 27, 2022	1372	0.00
Friday, October 28, 2022	714	1.80	Monday, November 28, 2022	945	0.00	Wednesday, December 28, 2022	319	0.00
Saturday, October 29, 2022	1,736	0.06	Tuesday, November 29, 2022	498	0.00	Thursday, December 29, 2022	184	0.00
Sunday, October 30, 2022	1266	0.00	Wednesday, November 30, 2022	569	0.00	Friday, December 30, 2022	314	0.00
Monday, October 31, 2022	1,012	0.00				Saturday, December 31, 2022	125	0.00

Notes:

1 - As denoted, precipitation data obtained from <https://www.wunderground.com/history/monthly/us/tx/frisco/KDAL/> (Dallas Love field), otherwise precipitation data primarily obtained from: <https://www.wunderground.com/dashboard/pws/KTXDALLA25> (Frisco).

Daily flow volumes provided by the Site.

NR - Not Recorded.

Prepared by: RSP 1/6/2023
Checked by: WLW 1/12/2023
Reviewed by: GRP 1/18/2023



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

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

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

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
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

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
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

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

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 1/6/2023

Checked by: WLW 1/12/2023

Reviewed by: GRP 1/18/2023

Table 3
French Drain Water
Analytical Data

	Sample ID FD101122-001		Sample ID FD101122-002	
	Laboratory ID 22100250-001		Laboratory ID 22100250-002	
	Date Collected 10/11/2022 13:05		Date Collected 10/11/2022 13:05	
	Metals			
Parameter:	Result	Units	Result	Units
Arsenic	NA	mg/L	<0.003	mg/L
Barium	NA	mg/L	0.067	mg/L
Cadmium	NA	mg/L	<0.0005	mg/L
Chromium	NA	mg/L	0.018	mg/L
Copper	NA	mg/L	0.0038 J-5	mg/L
Iron	NA	mg/L	<0.25	mg/L
Lead	NA	mg/L	0.009	mg/L
Manganese	NA	mg/L	0.007	mg/L
Nickel	NA	mg/L	<0.003	mg/L
Selenium	NA	mg/L	0.0145	mg/L
Silver	NA	mg/L	<0.001	mg/L
Zinc	NA	mg/L	<0.003	mg/L
Mercury	NA	mg/L	<0.0001	mg/L
General Chemistry				
Parameter:	Result	Units	Result	Units
Total Suspended Solids	3.3 J-5	mg/L	NA	mg/L
Total Dissolved Solids	1,450	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)
- 5) J-5 - the associated concentration is an estimated value between the SDL and the adjusted method quantitation limit (MQL).

Prepared by: SMA 12/1/2022

Checked by: RSP 12/5/2022

Reviewed by: GRP 1/18/2023



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



Tuesday, October 25, 2022

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, TX 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>
22100250-001	FD101122-001	Liquid	10/11/2022 13:05	Total Dissolved Solids, Total Suspended Solids
22100250-002	FD101122-002	Liquid	10/11/2022 13:05	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
22100250-003	SO101122-001	Liquid	10/11/2022 10:50	Total Dissolved Solids, Total Suspended Solids
22100250-004	SO101122-002	Liquid	10/11/2022 10:50	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
22100250-005	L101122-001	Liquid	10/11/2022 11:00	Total Dissolved Solids, Total Suspended Solids
22100250-006	L101122-002	Liquid	10/11/2022 11:00	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,

Homer Youngblood
Technical Director



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

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

Customer Sample ID: **FD101122-001**

SPL Sample ID: 22100250-001

Matrix: **Liquid**

Sample Received: 10/12/2022

Sample Collected: **10/11/2022 13:05**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Total Dissolved Solids	50.0	50	1450	mg/L	10/18/22 16:10	SM 2540-C	K.V.	
Total Suspended Solids	1.0	5	3.3	mg/L	10/17/22 10:40	SM 2540-D	K.V.	J-5



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

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

Customer Sample ID: **FD101122-002**

SPL Sample ID: 22100250-002

Sample Received: 10/12/2022

Matrix: **Liquid**

Sample Collected: **10/11/2022 13:05**

Parameter	SDL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Metals								
<i>Digested by method 200.8 on 10/17/22 at 10:50</i>								
Arsenic	0.003	0.005	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
Barium	0.003	0.005	0.067	mg/L	10/18/22 19:13	200.8	K.E.L.	
Cadmium	0.0005	0.001	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
Chromium	0.003	0.005	0.018	mg/L	10/18/22 19:13	200.8	K.E.L.	
Copper	0.0025	0.005	0.0038	mg/L	10/18/22 19:13	200.8	K.E.L.	J-5
Iron	0.25	0.5	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
Lead	0.003	0.005	0.009	mg/L	10/18/22 19:13	200.8	K.E.L.	
Manganese	0.001	0.002	0.007	mg/L	10/18/22 19:13	200.8	K.E.L.	
Nickel	0.003	0.005	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
Selenium	0.0025	0.005	0.0145	mg/L	10/18/22 19:13	200.8	K.E.L.	
Silver	0.001	0.001	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
Zinc	0.003	0.005	ND	mg/L	10/18/22 19:13	200.8	K.E.L.	
<i>Digested by method 245.1 on 10/18/22 at 14:10</i>								
Mercury	0.0001	0.0002	ND	mg/L	10/19/22 16:47	245.1	A.G.J.	



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

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

Customer Sample ID: **SO101122-001**

SPL Sample ID: 22100250-003

Matrix: **Liquid**

Sample Received: 10/12/2022

Sample Collected: **10/11/2022 10:50**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Total Dissolved Solids	500	500	33900	mg/L	10/19/22 16:20	SM 2540-C	K.V.	
Total Suspended Solids	1.0	5.6	138	mg/L	10/14/22 13:25	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: **SO101122-002**

SPL Sample ID: 22100250-004

Sample Received: 10/12/2022

Matrix: **Liquid**

Sample Collected: **10/11/2022 10:50**

Parameter	SDL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Metals								
<i>Digested by method 200.8 on 10/17/22 at 10:50</i>								
Arsenic	0.003	0.005	0.610	mg/L	10/18/22 19:31	200.8	K.E.L.	
Barium	0.003	0.005	0.046	mg/L	10/18/22 19:31	200.8	K.E.L.	
Cadmium	0.0005	0.001	0.0008	mg/L	10/18/22 19:31	200.8	K.E.L.	J-5
Chromium	0.003	0.005	0.024	mg/L	10/18/22 19:31	200.8	K.E.L.	
Copper	0.0025	0.005	0.0603	mg/L	10/18/22 19:31	200.8	K.E.L.	
Iron	0.25	0.5	ND	mg/L	10/18/22 19:31	200.8	K.E.L.	
Lead	0.003	0.005	0.005	mg/L	10/18/22 19:31	200.8	K.E.L.	
Manganese	0.001	0.002	0.172	mg/L	10/18/22 19:31	200.8	K.E.L.	
Nickel	0.003	0.005	0.015	mg/L	10/18/22 19:31	200.8	K.E.L.	
Selenium	0.0025	0.005	0.0141	mg/L	10/18/22 19:31	200.8	K.E.L.	
Silver	0.0005	0.001	ND	mg/L	10/18/22 19:31	200.8	K.E.L.	
Zinc	0.003	0.005	0.003	mg/L	10/18/22 19:31	200.8	K.E.L.	J-5
<i>Digested by method 245.1 on 10/18/22 at 14:10</i>								
Mercury	0.0001	0.0002	ND	mg/L	10/19/22 16:49	245.1	A.G.J.	



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

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

Customer Sample ID: **L101122-001**

SPL Sample ID: 22100250-005

Matrix: **Liquid**

Sample Received: 10/12/2022

Sample Collected: **10/11/2022 11:00**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Total Dissolved Solids	500	500	83600	mg/L	10/19/22 16:20	SM 2540-C	K.V.	
Total Suspended Solids	1.0	5	76.0	mg/L	10/17/22 10:40	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: **L101122-002**

SPL Sample ID: 22100250-006

Sample Received: 10/12/2022

Matrix: **Liquid**

Sample Collected: **10/11/2022 11:00**

Parameter	SDL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Metals								
<i>Digested by method 200.8 on 10/17/22 at 10:50</i>								
Arsenic	0.250	0.005	21.4	mg/L	10/19/22 17:22	200.8	K.E.L.	Dx100
Barium	0.003	0.005	0.026	mg/L	10/18/22 20:46	200.8	K.E.L.	
Cadmium	0.0005	0.001	0.0124	mg/L	10/18/22 20:46	200.8	K.E.L.	
Chromium	0.003	0.005	0.004	mg/L	10/18/22 20:46	200.8	K.E.L.	J-5
Copper	0.0025	0.005	ND	mg/L	10/18/22 20:46	200.8	K.E.L.	
Iron	0.25	0.5	0.37	mg/L	10/18/22 20:46	200.8	K.E.L.	J-5
Lead	0.003	0.005	ND	mg/L	10/18/22 20:46	200.8	K.E.L.	
Manganese	0.001	0.002	0.011	mg/L	10/18/22 20:46	200.8	K.E.L.	
Nickel	0.003	0.005	0.346	mg/L	10/18/22 20:46	200.8	K.E.L.	
Selenium	0.0025	0.005	0.5889	mg/L	10/18/22 20:46	200.8	K.E.L.	
Silver	0.001	0.001	ND	mg/L	10/18/22 20:46	200.8	K.E.L.	
Zinc	0.003	0.005	ND	mg/L	10/18/22 20:46	200.8	K.E.L.	
<i>Digested by method 245.1 on 10/18/22 at 14:10</i>								
Mercury	0.0001	0.0002	0.0003	mg/L	10/19/22 16:51	245.1	A.G.J.	



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:
FD101122-001	22100250-001	Total Dissolved Solids	SM 2540-C	TDS__06929_L
		Total Suspended Solids	SM 2540-D	TSS__10849_L
FD101122-002	22100250-002	Mercury	245.1	MERC_04351_L
		Arsenic	200.8	META_08383_L
		Selenium	200.8	META_08383_L
		Silver	200.8	META_08383_L
		Zinc	200.8	META_08383_L
		Manganese	200.8	META_08383_L
		Lead	200.8	META_08383_L
		Iron	200.8	META_08383_L
		Copper	200.8	META_08383_L
		Chromium	200.8	META_08383_L
		Nickel	200.8	META_08383_L
		Barium	200.8	META_08383_L
		Cadmium	200.8	META_08383_L
SO101122-001	22100250-003	Total Dissolved Solids	SM 2540-C	TDS__07029_L
		Total Suspended Solids	SM 2540-D	TSS__10749_L
SO101122-002	22100250-004	Mercury	245.1	MERC_04351_L
		Copper	200.8	META_08383_L
		Silver	200.8	META_08383_L
		Selenium	200.8	META_08383_L
		Nickel	200.8	META_08383_L
		Manganese	200.8	META_08383_L
		Iron	200.8	META_08383_L
		Chromium	200.8	META_08383_L
		Zinc	200.8	META_08383_L
		Cadmium	200.8	META_08383_L
		Barium	200.8	META_08383_L
		Arsenic	200.8	META_08383_L
		Lead	200.8	META_08383_L
L101122-001	22100250-005	Total Dissolved Solids	SM 2540-C	TDS__07029_L
		Total Suspended Solids	SM 2540-D	TSS__10849_L
L101122-002	22100250-006	Mercury	245.1	MERC_04351_L
		Lead	200.8	META_08383_L
		Arsenic	200.8	META_08383_L
		Barium	200.8	META_08383_L
		Cadmium	200.8	META_08383_L
		Chromium	200.8	META_08383_L
		Iron	200.8	META_08383_L
		Manganese	200.8	META_08383_L
		Nickel	200.8	META_08383_L
		Selenium	200.8	META_08383_L
		Silver	200.8	META_08383_L
		Zinc	200.8	META_08383_L
		Copper	200.8	META_08383_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
QCBatchID TDS_06929_L									
Blank	Total Dissolved Solids	ND mg/L							
LCS	Total Dissolved Solids	990 mg/L		1000 mg/L	99%	90-110%			
LCSD	Total Dissolved Solids	985 mg/L		1000 mg/L	99%	90-110%	0.5%	0-5%	
Replicate	Total Dissolved Solids	1220 mg/L	1240 mg/L				1.6%	0-5%	
QCBatchID TDS_07029_L									
Blank	Total Dissolved Solids	ND mg/L							
LCS	Total Dissolved Solids	985 mg/L		1000 mg/L	99%	90-110%			
LCSD	Total Dissolved Solids	990 mg/L		1000 mg/L	99%	90-110%	0.5%	0-5%	
Replicate	Total Dissolved Solids	1340 mg/L	1330 mg/L				0.7%	0-5%	
QCBatchID TSS_10749_L									
Blank	Total Suspended Solids	ND mg/L							
LCS	Total Suspended Solids	492 mg/L		500 mg/L	98%	85-115%			
LCSD	Total Suspended Solids	485 mg/L		500 mg/L	97%	85-115%	1.4%	0-15%	
Replicate	Total Suspended Solids	131 mg/L	138 mg/L				5.2%	0-15%	
QCBatchID TSS_10849_L									
Blank	Total Suspended Solids	ND mg/L							
LCS	Total Suspended Solids	488 mg/L		500 mg/L	98%	85-115%			
LCSD	Total Suspended Solids	487 mg/L		500 mg/L	97%	85-115%	0.2%	0-15%	
Replicate	Total Suspended Solids	74.3 mg/L	76 mg/L				2.3%	0-15%	
QCBatchID MERC_04351_L									
Blank	Mercury	ND mg/L							
LCS	Mercury	0.0101 mg/L		0.01 mg/L	101%	85-115%			
LCSD	Mercury	0.0102 mg/L		0.01 mg/L	102%	85-115%	1.0%	0-25%	
MS	Mercury	0.0102 mg/L	ND	0.01 mg/L	102%	80-120%			
MSD	Mercury	0.0097 mg/L	ND	0.01 mg/L	97%	80-120%	4.9%	0-25%	
QCBatchID META_08383_L									
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	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Barium	0.101 mg/L		0.1 mg/L	101%	85-115%			



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
QCBatchID META_08383_L									
	Cadmium	0.1050 mg/L		0.1 mg/L	105%	85-115%			
	Chromium	0.107 mg/L		0.1 mg/L	108%	85-115%			
	Copper	0.1013 mg/L		0.1 mg/L	101%	85-115%			
	Iron	10.3 mg/L		10.1 mg/L	102%	85-115%			
	Lead	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Manganese	0.106 mg/L		0.1 mg/L	106%	85-115%			
	Nickel	0.102 mg/L		0.1 mg/L	102%	85-115%			
	Selenium	0.1078 mg/L		0.1 mg/L	108%	85-115%			
	Silver	0.095 mg/L		0.1 mg/L	95%	85-115%			
	Zinc	0.098 mg/L		0.1 mg/L	98%	85-115%			
LCSD	Arsenic	0.102 mg/L		0.1 mg/L	102%	85-115%	2.1%	0-20%	
	Barium	0.104 mg/L		0.1 mg/L	104%	85-115%	3.0%	0-20%	
	Cadmium	0.1060 mg/L		0.1 mg/L	106%	85-115%	0.9%	0-20%	
	Chromium	0.106 mg/L		0.1 mg/L	106%	85-115%	0.8%	0-20%	
	Copper	0.1009 mg/L		0.1 mg/L	101%	85-115%	0.4%	0-20%	
	Iron	10.2 mg/L		10.1 mg/L	101%	85-115%	1.0%	0-20%	
	Lead	0.105 mg/L		0.1 mg/L	105%	85-115%	0.8%	0-20%	
	Manganese	0.106 mg/L		0.1 mg/L	106%	85-115%	0.3%	0-20%	
	Nickel	0.100 mg/L		0.1 mg/L	100%	85-115%	1.9%	0-20%	
	Selenium	0.1035 mg/L		0.1 mg/L	104%	85-115%	4.1%	0-20%	
	Silver	0.097 mg/L		0.1 mg/L	97%	85-115%	1.8%	0-20%	
	Zinc	0.097 mg/L		0.1 mg/L	97%	85-115%	1.0%	0-20%	
MS	Arsenic	0.519 mg/L	ND	0.5 mg/L	104%	80-120%			
	Barium	0.570 mg/L	0.067 mg/L	0.5 mg/L	101%	80-120%			
	Cadmium	0.5174 mg/L	ND	0.5 mg/L	104%	80-120%			
	Chromium	0.537 mg/L	0.018 mg/L	0.5 mg/L	104%	80-120%			
	Copper	0.4946 mg/L	0.0038 mg/L	0.5 mg/L	98%	80-120%			
	Iron	50.6 mg/L	ND	50.5 mg/L	100%	80-120%			
	Lead	0.521 mg/L	0.009 mg/L	0.5 mg/L	103%	80-120%			
	Manganese	0.513 mg/L	0.007 mg/L	0.5 mg/L	101%	80-120%			
	Nickel	0.496 mg/L	ND	0.5 mg/L	99%	80-120%			
	Selenium	0.5318 mg/L	0.0145 mg/L	0.5 mg/L	104%	80-120%			
	Silver	0.471 mg/L	ND	0.5 mg/L	94%	80-120%			
	Zinc	0.476 mg/L	ND	0.5 mg/L	95%	80-120%			
MSD	Arsenic	0.527 mg/L	ND	0.5 mg/L	105%	80-120%	1.5%	0-20%	
	Barium	0.554 mg/L	0.067 mg/L	0.5 mg/L	97%	80-120%	2.8%	0-20%	
	Cadmium	0.5197 mg/L	ND	0.5 mg/L	104%	80-120%	0.5%	0-20%	
	Chromium	0.549 mg/L	0.018 mg/L	0.5 mg/L	106%	80-120%	2.2%	0-20%	
	Copper	0.5024 mg/L	0.0038 mg/L	0.5 mg/L	100%	80-120%	1.6%	0-20%	
	Iron	50.9 mg/L	ND	50.5 mg/L	101%	80-120%	0.7%	0-20%	
	Lead	0.517 mg/L	0.009 mg/L	0.5 mg/L	102%	80-120%	0.7%	0-20%	
	Manganese	0.524 mg/L	0.007 mg/L	0.5 mg/L	103%	80-120%	2.1%	0-20%	
	Nickel	0.508 mg/L	ND	0.5 mg/L	102%	80-120%	2.3%	0-20%	
	Selenium	0.5447 mg/L	0.0145 mg/L	0.5 mg/L	106%	80-120%	2.4%	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
QCBatchID META_08383_L									
	Silver	0.462 mg/L	ND	0.5 mg/L	92%	80-120%	2.0%	0-20%	
	Zinc	0.482 mg/L	ND	0.5 mg/L	96%	80-120%	1.2%	0-20%	



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Case Narrative

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

J-5	The associated concentration is an estimated value detected between the SDL and the Adjusted MQL
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.



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Sample Preservation Verification

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

Receipt temp: **2.7 °C on Ice**

Receipt method: **Customer Courier**

Custody seal intact: **Yes**

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

Customer Sample ID: **FD101122-001**

SPL Sample ID: **22100250-001**

Collected: **10/11/22 13:05**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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: **FD101122-002**

SPL Sample ID: **22100250-002**

Collected: **10/11/22 13:05**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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: **SO101122-001**

SPL Sample ID: **22100250-003**

Collected: **10/11/22 10:50**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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: **SO101122-002**

SPL Sample ID: **22100250-004**

Collected: **10/11/22 10:50**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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: **L101122-001**

SPL Sample ID: **22100250-005**

Collected: **10/11/22 11:00**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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: **L101122-002**

SPL Sample ID: **22100250-006**

Collected: **10/11/22 11:00**

Collected By: **Eduardo Salazar**

Collector Affiliation: **City of Frisco**

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



Frisco Community Development Corp/City of Fri
Eduardo Salazar

Sample Preservation Verification

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

Sample conditions at time of receipt at laboratory verified in part or in whole by:

D.R.B.

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: 							
SAMPLE No. / IDENTIFICATION	DATE (S)	TIME (S)	SAMPLE TYPE **	ANALYSES REQUESTED	pH	DATE TIME	INITIALS	PRESERVATION/REMARKS/CONTAINERS / ALL SAMPLES COOL ≤ 6° C	INITIALS
22100250									
FD101122-001	10/11/22	1:05 PM	Grab	TDS-TSS	8.7	10/11/22 1:05 PM	ES	None/1 liter	ES
FD101122-002	10/11/22	1:05 PM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	8.7	10/11/22 1:05 PM	ES	HN03/250ml/plastic	ES
SO101122-001	10/11/22	10:50 AM	Grab	TDS-TSS	9.0	10/11/22 10:50 AM	ES	None/1 liter	ES
SO101122-002	10/11/22	10:50 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	9.0	10/11/22 10:50 AM	ES	HN03/250ml/plastic	ES
L101122-001	10/11/22	11:00 AM	Grab	TDS-TSS	12.2	10/11/22 11:00 AM	ES	None/1 liter	ES
L101122-002	10/11/22	11:00 AM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	12.2	10/11/22 11:00 AM	ES	HN03/250ml/plastic	ES

FIELD INFORMATION: Raw Grab Samples Quarterly

E-MAIL RESULTS TO: Billy.king@nctc.org@gmail.com ESsalazar@friscoctc.org jinyun@braunintertec.com

USE WASTE WATER REPORT FORMAT

RELINQUISHED BY: (Signature)	REPRESENTING	DATE	TIME	RECEIVED BY: (Signature)	REPRESENTING	DATE	TIME
<i>Eduardo Salazar</i>	City of Frisco	10/12/22	11:40 AM	<i>Paul Hays</i>	JCS6	10/12/22	11:40 AM
<i>Paul Hays</i>	JCS6	10/12/22	1:25 PM	<i>Paul Hays</i>	JCS6	10/12/22	1:25 PM

** TC = TIME COMPOSITE (96 PARTS)

FC = FLOW WEIGHTED COMPOSITE (96 PARTS)

G = GRAB

OX-320 2.7°C