

March 16, 2022

Project No. 2040906201

Mack Borchardt

City of Frisco
6101 Frisco Square Boulevard
Frisco, Texas 75034

RE: 2021 FOURTH QUARTER FRENCH DRAIN OPERATIONAL REPORT, FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE, 7471 OLD 5TH STREET, FRISCO, TEXAS

Dear Mr. Borchardt,

Golder Associates USA Inc. (Golder), a member of WSP, has prepared this quarterly operational report for the French Drain System (FDS) at the Frisco Community Development Corporation (CDC) facility located at 7471 Old 5th 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 Frisco CDC.

This report includes general FDS background information and summarizes operation of the FDS system during the fourth quarter 2021. 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 by the City of Frisco employees and Golder during the fourth quarter 2021 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 2021 were completed by both City of Frisco Site personnel as well as Golder staff. City of Frisco Site personnel conducted daily and weekly activities, and Golder personnel conducted the quarterly inspection.

A cracked line associated with the pump and float of the FDS was identified by City of Frisco Site personnel during the October 25, 2021 weekly inspection. The line was subsequently repaired on October 26, 2021. Golder personnel inspected the outside portion of the flood wall on December 9, 2021, and noticed minor cracks in the expansion joints. The City of Frisco Site personnel were notified, and the locations were patched with epoxy filler on January 10, 2022.

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 reading 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 local weather station located in Frisco, Texas (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 2021. 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 of 2021 (with some readings being slightly higher and some readings being slightly lower) than in the previous event.

3.3 Floodwall Seepage

There was no floodwall seepage observed during the flood wall inspections conducted on December 9, 2021.

3.4 White Crystalline Material Observations

White crystalline material was not observed on the flood wall during the Golder inspection conducted on December 9, 2021. As such, no samples of white crystalline material were collected or analyzed.

3.5 Laboratory Analytical Results

Water samples were collected by City of Frisco Site personnel from the FDS during the fourth quarter 2021. Sampling of the French Drain was conducted on October 7, 2021. All analytical results from these samples are included in Table 3 and Attachment A.

4.0 SUMMARY OF SYSTEM PERFORMANCE

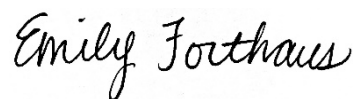
Based on the results of the inspection and monitoring activities for the fourth quarter 2021 described above, the FDS appears to be operating as designed.

5.0 CLOSURE

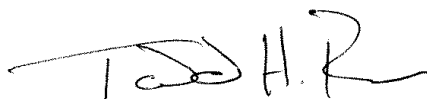
Golder appreciates the opportunity to assist the Frisco Community Development Corporation with this project. Please contact us if you have any questions or comments concerning this quarterly operational report.

Sincerely,

Golder Associates USA Inc.



Emily P. Forthaus
Senior Consultant



Todd H. Rees, PhD
Senior Director

EPF/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

Oct-21			Nov-21			Dec-21		
Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)	Total Flow/Water Removed (gal)		Total Precip (in)
8,689		3.02	13,760		3.04	1,875		0.58
Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)	Date	Daily Flow (gal)	Daily Precip (in)
Friday, October 1, 2021	53	0.00	Monday, November 1, 2021	192	0.00	Wednesday, December 1, 2021	98	0.00
Saturday, October 2, 2021	NR	0.00	Tuesday, November 2, 2021	607	0.42	Thursday, December 2, 2021	98	0.00
Sunday, October 3, 2021	0	0.00	Wednesday, November 3, 2021	2,835	0.92	Friday, December 3, 2021	98	0.00
Monday, October 4, 2021	33	0.00	Thursday, November 4, 2021	1,799	0.00	Saturday, December 4, 2021	97	0.00
Tuesday, October 5, 2021	0	0.00	Friday, November 5, 2021	648	0.00	Sunday, December 5, 2021	48	0.00
Wednesday, October 6, 2021	0	0.00	Saturday, November 6, 2021	501	0.00	Monday, December 6, 2021	99	0.00
Thursday, October 7, 2021	0	0.00	Sunday, November 7, 2021	250	0.00	Tuesday, December 7, 2021	49	0.00
Friday, October 8, 2021	0	0.00	Monday, November 8, 2021	245	0.00	Wednesday, December 8, 2021	49	0.00
Saturday, October 9, 2021	NR	0.00	Tuesday, November 9, 2021	195	0.00	Thursday, December 9, 2021	0	0.00
Sunday, October 10, 2021	NR	0.61	Wednesday, November 10, 2021	146	1.27	Friday, December 10, 2021	50	0.00
Monday, October 11, 2021	586	0.00	Thursday, November 11, 2021	1,544	0.01	Saturday, December 11, 2021	52	0.00
Tuesday, October 12, 2021	347	0.00	Friday, November 12, 2021	938	0.00	Sunday, December 12, 2021	0	0.00
Wednesday, October 13, 2021	54	0.96	Saturday, November 13, 2021	443	0.00	Monday, December 13, 2021	74	0.00
Thursday, October 14, 2021	911	0.13	Sunday, November 14, 2021	444	0.00	Tuesday, December 14, 2021	0	0.00
Friday, October 15, 2021	142	0.00	Monday, November 15, 2021	342	0.00	Wednesday, December 15, 2021	49	0.00
Saturday, October 16, 2021	731	0.00	Tuesday, November 16, 2021	239	0.00	Thursday, December 16, 2021	0	0.00
Sunday, October 17, 2021	249	0.00	Wednesday, November 17, 2021	145	0.00	Friday, December 17, 2021	48	0.00
Monday, October 18, 2021	179	0.00	Thursday, November 18, 2021	147	0.00	Saturday, December 18, 2021	0	0.09
Tuesday, October 19, 2021	104	0.00	Friday, November 19, 2021	97	0.00	Sunday, December 19, 2021	99	0.00
Wednesday, October 20, 2021	52	0.00	Saturday, November 20, 2021	48	0.00	Monday, December 20, 2021	109	0.07
Thursday, October 21, 2021	105	0.00	Sunday, November 21, 2021	99	0.00	Tuesday, December 21, 2021	99	0.01
Friday, October 22, 2021	0	0.00	Monday, November 22, 2021	93	0.00	Wednesday, December 22, 2021	18	0.00
Saturday, October 23, 2021	53	0.00	Tuesday, November 23, 2021	49	0.00	Thursday, December 23, 2021	81	0.00
Sunday, October 24, 2021	0	0.29	Wednesday, November 24, 2021	88	0.00	Friday, December 24, 2021	51	0.00
Monday, October 25, 2021	0	0.00	Thursday, November 25, 2021	0	0.00	Saturday, December 25, 2021	0	0.00
Tuesday, October 26, 2021	1,758	0.00	Friday, November 26, 2021	76	0.00	Sunday, December 26, 2021	44	0.00
Wednesday, October 27, 2021	1,350	1.03	Saturday, November 27, 2021	52	0.41	Monday, December 27, 2021	49	0.00
Thursday, October 28, 2021	1,057	0.00	Sunday, November 28, 2021	869	0.01	Tuesday, December 28, 2021	65	0.00
Friday, October 29, 2021	539	0.00	Monday, November 29, 2021	467	0.00	Wednesday, December 29, 2021	99	0.37
Saturday, October 30, 2021	240	0.00	Tuesday, November 30, 2021	162	0.00	Thursday, December 30, 2021	202	0.01
Sunday, October 31, 2021	146	0.00				Friday, December 31, 2021	50	0.03

Notes:

Precipitation data obtained from: <https://www.wunderground.com/dashboard/pws/KTXDALLA25> (Frisco)

Daily flow volumes provided by the Site.

NR - Not Recorded.

Prepared by: RSP 01/07/2022

Checked by: KAM 02/02/2022

Reviewed by: AMF 02/10/2022

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			

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
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

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
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

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
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

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

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 01/07/2022

Checked by: KAM 02/02/2022

Reviewed by: AMF 02/10/2022

Table 3
French Drain Water
Analytical Data

	Sample ID FD100821-001		Sample ID FD100821-002	
	Laboratory ID 21100201-001		Laboratory ID 21100201-002	
	Date Collected 10/7/2021 15:00		Date Collected 10/7/2021 15:00	
Metals				
Parameter:	Result	Units	Result	Units
Arsenic	NA	mg/L	<0.003	mg/L
Barium	NA	mg/L	0.063	mg/L
Cadmium	NA	mg/L	<0.0005	mg/L
Chromium	NA	mg/L	0.012	mg/L
Copper	NA	mg/L	0.0053	mg/L
Iron	NA	mg/L	<0.25	mg/L
Lead	NA	mg/L	<0.003	mg/L
Manganese	NA	mg/L	<0.001	mg/L
Nickel	NA	mg/L	<0.003	mg/L
Selenium	NA	mg/L	0.0083	mg/L
Silver	NA	mg/L	<0.001	mg/L
Zinc	NA	mg/L	0.003 J-5	mg/L
Mercury	NA	mg/L	<0.0001	mg/L
General Chemistry				
Parameter:	Result	Units	Result	Units
Total Suspended Solids	2.8 J-5	mg/L	NA	mg/L
Total Dissolved Solids	1,330	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).

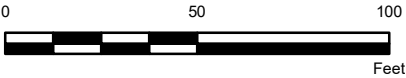
Prepared by: RSP 11/23/2021

Checked by: KAM 02/02/2022

Reviewed by: AMF 02/10/2022



- 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
 GOLDER MEMBER OF WSP	DESIGNED	JWT
	PREPARED	JWT
	REVIEWED	EPF
	APPROVED	AMF

PROJECT NO.	CONTROL	REV.	FIGURE
130208605	1302086Y003	0	1

Monday, October 18, 2021

Frisco Community Development Corp/City of Fri
Eduardo Salazar
6101 Frisco Square Blvd
Frisco, Texas 75034
Tel: (972) 335-2121 Fax:
esalazar@friscotexas.gov

Re: Project Name: F.C.D.C/Former Exide Technologies
Project Number: Influent water flows
Project Location: 7471 Fifth Street, Frisco, Texas 75034

Oxidor 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>
21100201-001	FD100821-001	Liquid	10/7/2021 15:00	Total Dissolved Solids, Total Suspended Solids
21100201-002	FD100821-002	Liquid	10/7/2021 15:00	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
21100201-003	SO100821-001	Liquid	10/7/2021 14:45	Total Dissolved Solids, Total Suspended Solids
21100201-004	SO100821-002	Liquid	10/7/2021 14:45	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Zinc
21100201-005	L100821-001	Liquid	10/7/2021 14:30	Total Dissolved Solids, Total Suspended Solids
21100201-006	L100821-002	Liquid	10/7/2021 14:30	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,



Charles Brungardt
President

Frisco Community Development Corp/City of Fri
Eduardo Salazar

Analytical Report

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

Customer Sample ID: **FD100821-001**

Oxidor Sample ID: 21100201-001

Sample Received: 10/8/2021

Matrix: **Liquid**

Sample Collected: **10/7/2021 15:00**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Total Dissolved Solids	50.0	50	1330	mg/L	10/12/21 16:38	SM 2540-C	K.V.	
Total Suspended Solids	1.0	5	2.8	mg/L	10/11/21 14:50	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: **FD100821-002**

Oxidor Sample ID: 21100201-002

Sample Received: 10/8/2021

Matrix: **Liquid**

Sample Collected: **10/7/2021 15:00**

Parameter	SDL	MQL	Result	Units	Date Analyzed	Method	Analyst	Flags
Metals								
<i>Digested by method 200.8 on 10/14/21 at 09:09</i>								
Arsenic	0.003	0.005	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Barium	0.003	0.005	0.063	mg/L	10/14/21 17:04	200.8	K.E.L.	
Cadmium	0.0005	0.001	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Chromium	0.003	0.005	0.012	mg/L	10/14/21 17:04	200.8	K.E.L.	
Copper	0.0025	0.005	0.0053	mg/L	10/14/21 17:04	200.8	K.E.L.	
Iron	0.25	0.5	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Lead	0.003	0.005	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Manganese	0.001	0.002	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Nickel	0.003	0.005	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Selenium	0.0025	0.005	0.0083	mg/L	10/14/21 17:04	200.8	K.E.L.	
Silver	0.001	0.001	ND	mg/L	10/14/21 17:04	200.8	K.E.L.	
Zinc	0.003	0.005	0.003	mg/L	10/14/21 17:04	200.8	K.E.L.	J-5
<i>Digested by method 245.1 on 10/11/21 at 09:00</i>								
Mercury	0.0001	0.0002	ND	mg/L	10/13/21 12:06	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:
FD100821-001	21100201-001	Total Dissolved Solids	SM 2540-C	TDS__05128_L
		Total Suspended Solids	SM 2540-D	TSS__03747_L
FD100821-002	21100201-002	Mercury	245.1	MERC_01349_L
		Arsenic	200.8	META_08781_L
		Selenium	200.8	META_08781_L
		Silver	200.8	META_08781_L
		Zinc	200.8	META_08781_L
		Manganese	200.8	META_08781_L
		Lead	200.8	META_08781_L
		Iron	200.8	META_08781_L
		Copper	200.8	META_08781_L
		Chromium	200.8	META_08781_L
		Nickel	200.8	META_08781_L
		Barium	200.8	META_08781_L
		Cadmium	200.8	META_08781_L
SO100821-001	21100201-003	Total Dissolved Solids	SM 2540-C	TDS__05228_L
		Total Suspended Solids	SM 2540-D	TSS__03747_L
SO100821-002	21100201-004	Mercury	245.1	MERC_01349_L
		Copper	200.8	META_08781_L
		Silver	200.8	META_08781_L
		Selenium	200.8	META_08781_L
		Nickel	200.8	META_08781_L
		Manganese	200.8	META_08781_L
		Iron	200.8	META_08781_L
		Chromium	200.8	META_08781_L
		Zinc	200.8	META_08781_L
		Cadmium	200.8	META_08781_L
		Barium	200.8	META_08781_L
		Arsenic	200.8	META_08781_L
		Lead	200.8	META_08781_L
L100821-001	21100201-005	Total Dissolved Solids	SM 2540-C	TDS__05128_L
		Total Suspended Solids	SM 2540-D	TSS__03747_L
L100821-002	21100201-006	Mercury	245.1	MERC_01349_L
		Lead	200.8	META_08881_L
		Arsenic	200.8	META_08881_L
		Barium	200.8	META_08881_L
		Cadmium	200.8	META_08881_L
		Chromium	200.8	META_08881_L
		Iron	200.8	META_08881_L
		Manganese	200.8	META_08881_L
		Nickel	200.8	META_08881_L
		Selenium	200.8	META_08881_L
		Silver	200.8	META_08881_L
		Zinc	200.8	META_08881_L
		Copper	200.8	META_08881_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__05128_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	985 mg/L		1000 mg/L	99%	90-110%	0.0%	0-5%	
Replicate	Total Dissolved Solids	325 mg/L	325 mg/L				0.0%	0-5%	
QCBatchID TDS__05228_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	1000 mg/L		1000 mg/L	100%	90-110%	1.0%	0-5%	
Replicate	Total Dissolved Solids	15100 mg/L	15100 mg/L				0.1%	0-5%	
QCBatchID TSS__03747_L									
Blank	Total Suspended Solids	ND mg/L							
LCS	Total Suspended Solids	486 mg/L		500 mg/L	97%	85-115%			
LCSD	Total Suspended Solids	502 mg/L		500 mg/L	100%	85-115%	3.2%	0-15%	
Replicate	Total Suspended Solids	46.5 mg/L	50.5 mg/L				8.2%	0-15%	
QCBatchID MERC_01349_L									
Blank	Mercury	ND mg/L							
LCS	Mercury	0.0099 mg/L		0.01 mg/L	99%	85-115%			
LCSD	Mercury	0.0102 mg/L		0.01 mg/L	102%	85-115%	3.0%	0-25%	
MS	Mercury	0.0100 mg/L	ND	0.01 mg/L	100%	80-120%			
MSD	Mercury	0.0098 mg/L	ND	0.01 mg/L	98%	80-120%	2.2%	0-25%	
QCBatchID META_08781_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	0.106 mg/L		0.1 mg/L	106%	85-115%			
	Barium	0.101 mg/L		0.1 mg/L	101%	85-115%			
	Cadmium	0.1059 mg/L		0.1 mg/L	106%	85-115%			
	Chromium	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Copper	0.1024 mg/L		0.1 mg/L	102%	85-115%			
	Iron	10.4 mg/L		10.1 mg/L	103%	85-115%			
	Lead	0.100 mg/L		0.1 mg/L	100%	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_08781_L									
	Manganese	0.104 mg/L		0.1 mg/L	104%	85-115%			
	Nickel	0.102 mg/L		0.1 mg/L	102%	85-115%			
	Selenium	0.1011 mg/L		0.1 mg/L	101%	85-115%			
	Silver	0.101 mg/L		0.1 mg/L	101%	85-115%			
	Zinc	0.102 mg/L		0.1 mg/L	102%	85-115%			
LCSD	Arsenic	0.100 mg/L		0.1 mg/L	100%	85-115%	5.9%	0-20%	
	Barium	0.099 mg/L		0.1 mg/L	99%	85-115%	1.6%	0-20%	
	Cadmium	0.0975 mg/L		0.1 mg/L	98%	85-115%	8.3%	0-20%	
	Chromium	0.098 mg/L		0.1 mg/L	98%	85-115%	6.4%	0-20%	
	Copper	0.0953 mg/L		0.1 mg/L	95%	85-115%	7.2%	0-20%	
	Iron	10.4 mg/L		10.1 mg/L	103%	85-115%	0.1%	0-20%	
	Lead	0.095 mg/L		0.1 mg/L	95%	85-115%	4.9%	0-20%	
	Manganese	0.097 mg/L		0.1 mg/L	97%	85-115%	6.7%	0-20%	
	Nickel	0.095 mg/L		0.1 mg/L	95%	85-115%	7.3%	0-20%	
	Selenium	0.0971 mg/L		0.1 mg/L	97%	85-115%	4.0%	0-20%	
	Silver	0.100 mg/L		0.1 mg/L	100%	85-115%	0.7%	0-20%	
	Zinc	0.095 mg/L		0.1 mg/L	95%	85-115%	6.8%	0-20%	
MS	Arsenic	0.558 mg/L	ND	0.5 mg/L	112%	80-120%			
	Barium	0.534 mg/L	0.039 mg/L	0.5 mg/L	99%	80-120%			
	Cadmium	0.5257 mg/L	0.0008 mg/L	0.5 mg/L	105%	80-120%			
	Chromium	0.526 mg/L	0.003 mg/L	0.5 mg/L	105%	80-120%			
	Copper	0.6659 mg/L	0.1595 mg/L	0.5 mg/L	101%	80-120%			
	Iron	52.0 mg/L	0.364 mg/L	50.5 mg/L	102%	80-120%			
	Lead	0.500 mg/L	ND	0.5 mg/L	100%	80-120%			
	Manganese	0.527 mg/L	0.011 mg/L	0.5 mg/L	103%	80-120%			
	Nickel	0.523 mg/L	0.014 mg/L	0.5 mg/L	102%	80-120%			
	Selenium	0.5529 mg/L	ND	0.5 mg/L	111%	80-120%			
	Silver	0.495 mg/L	0.001 mg/L	0.5 mg/L	99%	80-120%			
	Zinc	0.547 mg/L	0.049 mg/L	0.5 mg/L	100%	80-120%			
MSD	Arsenic	0.550 mg/L	ND	0.5 mg/L	110%	80-120%	1.4%	0-20%	
	Barium	0.509 mg/L	0.039 mg/L	0.5 mg/L	94%	80-120%	4.7%	0-20%	
	Cadmium	0.5138 mg/L	0.0008 mg/L	0.5 mg/L	103%	80-120%	2.3%	0-20%	
	Chromium	0.514 mg/L	0.003 mg/L	0.5 mg/L	102%	80-120%	2.2%	0-20%	
	Copper	0.6576 mg/L	0.1595 mg/L	0.5 mg/L	100%	80-120%	1.3%	0-20%	
	Iron	51.3 mg/L	0.364 mg/L	50.5 mg/L	101%	80-120%	1.3%	0-20%	
	Lead	0.492 mg/L	ND	0.5 mg/L	99%	80-120%	1.5%	0-20%	
	Manganese	0.517 mg/L	0.011 mg/L	0.5 mg/L	101%	80-120%	1.9%	0-20%	
	Nickel	0.512 mg/L	0.014 mg/L	0.5 mg/L	100%	80-120%	2.1%	0-20%	
	Selenium	0.5451 mg/L	ND	0.5 mg/L	109%	80-120%	1.4%	0-20%	
	Silver	0.479 mg/L	0.001 mg/L	0.5 mg/L	96%	80-120%	3.2%	0-20%	
	Zinc	0.541 mg/L	0.049 mg/L	0.5 mg/L	98%	80-120%	1.2%	0-20%	

QCBatchID META_08881_L

Blank Arsenic 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
QCBatchID META_08881_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	0.103 mg/L		0.1 mg/L	103%	85-115%			
	Barium	0.098 mg/L		0.1 mg/L	98%	85-115%			
	Cadmium	0.1020 mg/L		0.1 mg/L	102%	85-115%			
	Chromium	0.102 mg/L		0.1 mg/L	102%	85-115%			
	Copper	0.0991 mg/L		0.1 mg/L	99%	85-115%			
	Iron	10.2 mg/L		10.1 mg/L	101%	85-115%			
	Lead	0.096 mg/L		0.1 mg/L	96%	85-115%			
	Manganese	0.100 mg/L		0.1 mg/L	100%	85-115%			
	Nickel	0.099 mg/L		0.1 mg/L	99%	85-115%			
	Selenium	0.0969 mg/L		0.1 mg/L	97%	85-115%			
	Silver	0.099 mg/L		0.1 mg/L	99%	85-115%			
	Zinc	0.098 mg/L		0.1 mg/L	98%	85-115%			
LCSD	Arsenic	0.101 mg/L		0.1 mg/L	101%	85-115%	2.0%	0-20%	
	Barium	0.097 mg/L		0.1 mg/L	97%	85-115%	1.0%	0-20%	
	Cadmium	0.0995 mg/L		0.1 mg/L	100%	85-115%	2.5%	0-20%	
	Chromium	0.100 mg/L		0.1 mg/L	100%	85-115%	2.0%	0-20%	
	Copper	0.0966 mg/L		0.1 mg/L	97%	85-115%	2.5%	0-20%	
	Iron	10.3 mg/L		10.1 mg/L	102%	85-115%	1.0%	0-20%	
	Lead	0.092 mg/L		0.1 mg/L	92%	85-115%	4.3%	0-20%	
	Manganese	0.099 mg/L		0.1 mg/L	99%	85-115%	1.0%	0-20%	
	Nickel	0.097 mg/L		0.1 mg/L	97%	85-115%	2.0%	0-20%	
	Selenium	0.0966 mg/L		0.1 mg/L	97%	85-115%	0.3%	0-20%	
	Silver	0.100 mg/L		0.1 mg/L	100%	85-115%	1.0%	0-20%	
	Zinc	0.098 mg/L		0.1 mg/L	98%	85-115%	0.0%	0-20%	
MS	Arsenic	0.645 mg/L	0.106 mg/L	0.5 mg/L	108%	80-120%			
	Barium	0.510 mg/L	0.021 mg/L	0.5 mg/L	98%	80-120%			
	Cadmium	0.4929 mg/L	ND	0.5 mg/L	99%	80-120%			
	Chromium	0.506 mg/L	ND	0.5 mg/L	101%	80-120%			
	Copper	0.4641 mg/L	ND	0.5 mg/L	93%	80-120%			
	Iron	64.9 mg/L	14.4 mg/L	50.5 mg/L	100%	80-120%			
	Lead	0.517 mg/L	ND	0.5 mg/L	103%	80-120%			
	Manganese	5.46 mg/L	4.44 mg/L	0.5 mg/L	%	80-120%			

Q-12

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_08881_L									
	Nickel	0.501 mg/L	0.025 mg/L	0.5 mg/L	95%	80-120%			
	Selenium	0.5183 mg/L	0.019 mg/L	0.5 mg/L	100%	80-120%			
	Silver	0.467 mg/L	ND	0.5 mg/L	93%	80-120%			
	Zinc	0.468 mg/L	0.004 mg/L	0.5 mg/L	93%	80-120%			
MSD	Arsenic	0.644 mg/L	0.106 mg/L	0.5 mg/L	108%	80-120%	0.2%	0-20%	
	Barium	0.523 mg/L	0.021 mg/L	0.5 mg/L	100%	80-120%	2.5%	0-20%	
	Cadmium	0.4827 mg/L	ND	0.5 mg/L	97%	80-120%	2.1%	0-20%	
	Chromium	0.495 mg/L	ND	0.5 mg/L	99%	80-120%	2.2%	0-20%	
	Copper	0.4532 mg/L	ND	0.5 mg/L	91%	80-120%	2.4%	0-20%	
	Iron	65.8 mg/L	14.4 mg/L	50.5 mg/L	102%	80-120%	1.4%	0-20%	
	Lead	0.509 mg/L	ND	0.5 mg/L	102%	80-120%	1.6%	0-20%	
	Manganese	5.63 mg/L	4.44 mg/L	0.5 mg/L	%	80-120%			Q-12
	Nickel	0.496 mg/L	0.025 mg/L	0.5 mg/L	94%	80-120%	1.0%	0-20%	
	Selenium	0.5078 mg/L	0.019 mg/L	0.5 mg/L	98%	80-120%	2.1%	0-20%	
	Silver	0.463 mg/L	ND	0.5 mg/L	93%	80-120%	0.9%	0-20%	
	Zinc	0.457 mg/L	0.004 mg/L	0.5 mg/L	91%	80-120%	2.4%	0-20%	

Frisco Community Development Corp/City of Fri
Eduardo Salazar

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-12	Recovery is not reported due to sample matrix interference, high target analyte(s), high non-target analyte(s) or a combination thereof.
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)
SQI	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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Oxidor Laboratories, LLC 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: **1.5 °C on Ice**

Receipt method: **Customer Courier**

Custody seal intact: **Yes**

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

Customer Sample ID: **FD100821-001**

Oxidor Sample ID: **21100201-001**

Collected: **10/07/21 15:00**

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: **FD100821-002**

Oxidor Sample ID: **21100201-002**

Collected: **10/07/21 15:00**

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

Customer Sample ID: **SO100821-001**

Oxidor Sample ID: **21100201-003**

Collected: **10/07/21 14:45**

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: **SO100821-002**

Oxidor Sample ID: **21100201-004**

Collected: **10/07/21 14:45**

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: **L100821-001**

Oxidor Sample ID: **21100201-005**

Collected: **10/07/21 14:30**

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	-



Frisco Community Development Corp/City of Frisco
Eduardo Salazar

Sample Preservation Verification

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

Customer Sample ID: **L100821-002**

Collected By: **Eduardo Salazar**

Oxidor Sample ID: **21100201-006**

Collector Affiliation: **City of Frisco**

Collected: **10/07/21 14:30**

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

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

A.M.



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

21100201

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
FD100821-001	10/07/21	3:00 PM	Grab	TDS-TSS	9.9	10/07/21 3:00 PM	<i>ES</i>	None/1 liter	ES
FD100821-002	10/07/21	3:00 PM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	9.9	10/07/21 3:00 PM	<i>ES</i>	HN03/250ml/plastic	ES
SO100821-001	10/07/21	2:45 PM	Grab	TDS-TSS	8.8	10/07/21 2:45 PM	<i>ES</i>	None/1 liter	ES
SO100821-002	10/07/21	2:45 PM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	8.8	10/07/21 2:45 PM	<i>ES</i>	HN03/250ml/plastic	ES
L100821-001	10/07/21	2:30 PM	Grab	TDS-TSS	7.0	10/07/21 2:30 PM	<i>ES</i>	None/1 liter	ES
L100821-002	10/07/21	2:30 PM	Grab	As,Cd,Cu,Mn, Ni,Ag,Fe,Ba,C r,Pb,Hg,Se,Zn	7.0	10/07/21 2:30 PM	<i>ES</i>	HN03/250ml/plastic	ES

001

002

003

004

005

006

E-MAIL RESULTS TO: Billy.king.mete@gmail.com ESalazar@friscotexas.gov jmaynor@brauninterfec.com

USE WASTE WATER REPORT FORMAT

RELINQUISHED BY: (Signature) <i>Eduardo Salazar</i>	REPRESENTING City of Frisco	DATE 10/18/21	TIME 9:45 AM	RECEIVED BY: (Signature) <i>ESalazar</i>	REPRESENTING JCS6	DATE 10/18/21	TIME 9:45 AM
RELINQUISHED BY: (Signature) <i>ESalazar</i>	REPRESENTING JCS6	DATE 10/18/21	TIME 1:05 PM	RECEIVED BY: (Signature) <i>ESalazar</i>	REPRESENTING OXIDOR	DATE 10/18/21	TIME 13:05

** TC = TIME COMPOSITE (6 PARTS) FC = FLOW WEIGHTED COMPOSITE (6 PARTS) G = GRAB 1.5°C OX-1024